# SAFETY DATA SHEET

## 1. Identification

| | |
|---|---|
| **Product number** | 1000012066 |
| **Product identifier** | **RUBBER CLEANER & REJUVENATOR** |
| **Company information** | Sprayway, Inc.<br>1005 S. Westgate Drive<br>Addison, IL 60101 United States |
| **Company phone** | General Assistance 1-630-628-3000 |
| **Emergency telephone US** | 1-866-836-8855 |
| **Emergency telephone outside US** | 1-952-852-4646 |
| **Version #** | 01 |
| **Recommended use** | Cleaner |
| **Recommended restrictions** | None known. |

## 2. Hazard(s) identification

| | | |
|---|---|---|
| **Physical hazards** | Flammable aerosols | Category 1 |
| **Health hazards** | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2A |
| | Carcinogenicity | Category 1B |
| | Specific target organ toxicity, single exposure | Category 3 narcotic effects |
| | Aspiration hazard | Category 1 |
| **Environmental hazards** | Not classified. | |
| **OSHA defined hazards** | Not classified. | |

**Label elements**

| | |
|---|---|
| **Signal word** | Danger |
| **Hazard statement** | Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. |

**Precautionary statement**

| | |
|---|---|
| **Prevention** | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Wear eye/face protection. |
| **Response** | If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. |
| **Storage** | Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
| **Disposal** | Dispose of contents/container in accordance with local/regional/national/international regulations. |

| | |
|---|---|
| **Hazard(s) not otherwise classified (HNOC)** | None known. |
| **Supplemental information** | None. |

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Propylene Glycol Methyl Ether | | 107-98-2 | 20 - 40 |
| Solvent naphtha (petroleum), light aliph. | | 64742-89-8 | 20 - 40 |
| Dipropylene Glycol Monomethyl Ether | | 34590-94-8 | 10 - 20 |
| Hexylene Glycol | | 107-41-5 | 10 - 20 |
| Isopropyl Alcohol | | 67-63-0 | 2.5 - 10 |
| Propane | | 74-98-6 | 2.5 - 10 |
| Other components below reportable levels | | | 0.1 - 1 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

**Inhalation**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact**
Take off immediately all contaminated clothing. Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Wash clothing separately before reuse.

**Eye contact**
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion**
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Most important symptoms/effects, acute and delayed**
Causes serious eye irritation. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain.

**Indication of immediate medical attention and special treatment needed**
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information**
Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

**Suitable extinguishing media**
Powder. Alcohol resistant foam. Water fog. Carbon dioxide (CO2).

**Unsuitable extinguishing media**
Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**
Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Fire-fighting equipment/instructions**
Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

**Specific methods**
Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

**General fire hazards**
Extremely flammable aerosol.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Environmental manager must be informed of all major releases. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling**

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid contact with skin, eyes and clothing. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not re-use empty containers. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|---|---|---|
| Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) | PEL | 600 mg/m3 |
| | | 100 ppm |
| Isopropyl Alcohol (CAS 67-63-0) | PEL | 980 mg/m3 |
| | | 400 ppm |
| Propane (CAS 74-98-6) | PEL | 1800 mg/m3 |
| | | 1000 ppm |

**ACGIH**

| Components | Type | Value |
|---|---|---|
| Solvent naphtha (petroleum), light aliph. (CAS 64742-89-8) | TWA | 400 ppm |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value |
|---|---|---|
| Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) | STEL | 150 ppm |
| | TWA | 100 ppm |
| Hexylene Glycol (CAS 107-41-5) | Ceiling | 25 ppm |
| Isopropyl Alcohol (CAS 67-63-0) | STEL | 400 ppm |
| | TWA | 200 ppm |
| Propylene Glycol Methyl Ether (CAS 107-98-2) | STEL | 100 ppm |
| | TWA | 50 ppm |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) | STEL | 900 mg/m3 |
| | | 150 ppm |
| | TWA | 600 mg/m3 |
| | | 100 ppm |
| Hexylene Glycol (CAS 107-41-5) | Ceiling | 125 mg/m3 |
| | | 25 ppm |
| Isopropyl Alcohol (CAS 67-63-0) | STEL | 1225 mg/m3 |
| | | 500 ppm |
| | TWA | 980 mg/m3 |
| | | 400 ppm |
| Propane (CAS 74-98-6) | TWA | 1800 mg/m3 |
| | | 1000 ppm |
| Propylene Glycol Methyl Ether (CAS 107-98-2) | STEL | 540 mg/m3 |
| | | 150 ppm |
| | TWA | 360 mg/m3 |
| | | 100 ppm |

**Biological limit values**

**ACGIH Biological Exposure Indices**

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| Isopropyl Alcohol (CAS 67-63-0) | 40 mg/l | Acetone | Urine | * |

* - For sampling details, please see the source document.

**Exposure guidelines**

**US - California OELs: Skin designation**

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Can be absorbed through the skin.
Propylene Glycol Methyl Ether (CAS 107-98-2) Can be absorbed through the skin.

**US - Tennesse OELs: Skin designation**

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Hand protection** Wear appropriate chemical resistant gloves.

**Skin protection**

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Liquid. |
| **Form** | Aerosol. |
| **Color** | Not available. |
| **Odor** | Not available. |
| **Odor threshold** | Not available. |
| **pH** | Not available. |
| **Melting point/freezing point** | Not available. |
| **Initial boiling point and boiling range** | 175 °F (79.44 °C) estimated |
| **Flash point** | 53.0 °F (11.7 °C) Concentrate+Propellant estimated |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | Not available. |
| **Flammability limit - upper (%)** | 12 % estimated |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | 80 - 100 psig @70F estimated |
| **Vapor density** | Not available. |
| **Relative density** | 0.505 g/cm3 estimated |
| **Solubility(ies)** | |
| **Solubility (water)** | Not available. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | 797 °F (425 °C) estimated |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Density** | 0.47 g/cm3 estimated |
| **Flammability class** | Flammable IB estimated |
| **Heat of combustion** | 35.33 kJ/g estimated |
| **Heat of combustion (NFPA 30B)** | 35.33 kJ/g estimated |
| **Percent volatile** | 12.69 % estimated |
| **Specific gravity** | 0.471 estimated |
| **VOC (Weight %)** | 12.69 % estimated |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **Chemical stability** | Material is stable under normal conditions. |
| **Possibility of hazardous reactions** | Hazardous polymerization does not occur. |
| **Conditions to avoid** | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| **Incompatible materials** | Strong acids. Strong oxidizing agents. Isocyanates. Chlorine. |
| **Hazardous decomposition products** | No hazardous decomposition products are known. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Ingestion** | Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia. |
| **Inhalation** | May cause drowsiness and dizziness. Headache. Nausea, vomiting. |
| **Skin contact** | Causes skin irritation. |
| **Eye contact** | Causes serious eye irritation. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death. Causes serious eye irritation. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May cause central nervous system effects. |

**Information on toxicological effects**

**Acute toxicity** May be fatal if swallowed and enters airways. Narcotic effects. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

| Components | Species | Test Results |
|---|---|---|
| Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 9510 mg/kg, 24 Hours |
| | | 10 ml/kg, 24 Hours |
| | Rat | > 19020 mg/kg, Hours |
| | | > 20 ml/kg, Hours |
| *Inhalation* | | |
| LC50 | Rat | > 553 ppm, 8 Hours |
| | | > 275 ppm, 7 Hours |
| *Oral* | | |
| LD50 | Dog | 7.5 ml/kg |
| | Rat | 5.4 ml/kg |
| Hexylene Glycol (CAS 107-41-5) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 13.3 ml/kg, 24 Hours |
| *Oral* | | |
| LD50 | Rat | 4700 mg/kg |
| Isopropyl Alcohol (CAS 67-63-0) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 16.4 ml/kg, 24 Hours |
| *Inhalation* | | |
| LC50 | Rat | > 10000 ppm, 6 Hours |
| *Oral* | | |
| LD50 | Rat | 5.84 g/kg |
| Propane (CAS 74-98-6) | | |
| **Acute** | | |
| *Inhalation* | | |
| LC50 | Mouse | 1237 mg/l, 120 Minutes |
| | | 52 %, 120 Minutes |
| | Rat | 1355 mg/l |
| | | 658 mg/l/4h |

| Components | Species | Test Results |
|---|---|---|
| Propylene Glycol Methyl Ether (CAS 107-98-2) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 13000 mg/kg, 24 Hours |
| | | 14.1 ml/kg, 24 Hours |
| | Rat | > 2000 mg/kg, Days |
| *Inhalation* | | |
| LC100 | Rat | 10400 ppm |
| LC50 | Mouse | 6000 - 7000 ppm, 6 Hours |
| *Oral* | | |
| LD50 | Dog | 9000 mg/kg |
| | Rat | 3739 mg/kg |
| | | 5.66 ml/kg |
| *Other* | | |
| LD50 | Dog | 1800 - 2300 mg/kg |
| | Mouse | > 2000 mg/kg |
| | Rabbit | 1100 mg/kg |
| | Rat | 3900 mg/kg |
| Solvent naphtha (petroleum), light aliph. (CAS 64742-89-8) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 1900 mg/kg, 24 Hours |
| *Inhalation* | | |
| LC50 | Rat | > 5020 mg/m3, 4 Hours |
| | | > 4980 mg/m3 |
| | | > 4980 mg/m3, 4 Hours |
| | | > 4.96 mg/l, 4 Hours |
| *Oral* | | |
| LD50 | Rat | 4820 mg/kg |

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Narcotic effects. May cause drowsiness and dizziness.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Product | | Species | Test Results |
|---|---|---|---|
| RUBBER CLEANER & REJUVENATOR (CAS Mixture) | | | |
| **Aquatic** | | | |
| Algae | IC50 | Algae | 5759.0537 mg/L, 72 Hours estimated |
| Crustacea | EC50 | Daphnia | 15272.3877 mg/L, 48 Hours estimated |
| Fish | LC50 | Fish | 21675.832 mg/L, 96 Hours estimated |

| Components | | Species | Test Results |
|---|---|---|---|
| Hexylene Glycol (CAS 107-41-5) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Ceriodaphnia reticulata) | 2400 - 3200 mg/l, 48 hours |
| Fish | LC50 | Bleak (Alburnus alburnus) | 7000 - 9100 mg/l, 96 hours |
| Isopropyl Alcohol (CAS 67-63-0) | | | |
| **Aquatic** | | | |
| Algae | IC50 | Algae | 1000.0001 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 13299 mg/L, 48 Hours |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | > 1400 mg/l, 96 hours |
| Propylene Glycol Methyl Ether (CAS 107-98-2) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Daphnia | 23300 mg/L, 48 Hours |
| Solvent naphtha (petroleum), light aliph. (CAS 64742-89-8) | | | |
| **Aquatic** | | | |
| Algae | IC50 | Algae | 4700 mg/L, 72 Hours |

* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

| | |
|---|---|
| Isopropyl Alcohol | 0.05 |
| Propane | 2.36 |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

## 14. Transport information

**DOT**

**UN number** UN1950

**UN proper shipping name** Aerosols, flammable

**Transport hazard class(es)**

| | |
|---|---|
| **Class** | 2.1 |
| **Subsidiary risk** | - |
| **Label(s)** | None |

**Packing group** Not applicable.
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.
**Special provisions** N82
**Packaging exceptions** 306
**Packaging non bulk** None
**Packaging bulk** None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**IATA**

**UN number** UN1950
**UN proper shipping name** Aerosols, flammable
**Transport hazard class(es)**

| | |
|---|---|
| **Class** | 2.1 |
| **Subsidiary risk** | - |
| **Label(s)** | 2.1 |

**Packing group** Not applicable.
**Environmental hazards** No.
**ERG Code** 10L
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.
**Other information**

| | |
|---|---|
| **Passenger and cargo aircraft** | Allowed. |
| **Cargo aircraft only** | Allowed. |

**Packaging Exceptions** LTD QTY

**IMDG**

**UN number** UN1950
**UN proper shipping name** AEROSOLS
**Transport hazard class(es)**

| | |
|---|---|
| **Class** | 2.1 |
| **Subsidiary risk** | - |
| **Label(s)** | None |

**Packing group** Not applicable.
**Environmental hazards**

| | |
|---|---|
| **Marine pollutant** | No. |

**EmS** Not available.
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.
**Packaging Exceptions** LTD QTY

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** This substance/mixture is not intended to be transported in bulk.

**DOT**

**IATA; IMDG**


## 15. Regulatory information

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Propane (CAS 74-98-6)

**Safe Drinking Water Act (SDWA)**

Not regulated.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)
Hexylene Glycol (CAS 107-41-5)
Isopropyl Alcohol (CAS 67-63-0)
Propane (CAS 74-98-6)
Propylene Glycol Methyl Ether (CAS 107-98-2)

**US. New Jersey Worker and Community Right-to-Know Act**

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)
Hexylene Glycol (CAS 107-41-5)
Isopropyl Alcohol (CAS 67-63-0)
Propane (CAS 74-98-6)
Propylene Glycol Methyl Ether (CAS 107-98-2)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)
Hexylene Glycol (CAS 107-41-5)

Isopropyl Alcohol (CAS 67-63-0)
Propane (CAS 74-98-6)
Propylene Glycol Methyl Ether (CAS 107-98-2)

**US. Rhode Island RTK**

Isopropyl Alcohol (CAS 67-63-0)
Propane (CAS 74-98-6)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 07-03-2015

**Version #** 01

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# SAFETY DATA SHEET

**SARGENT ACRYLIC PAINT** **SDS ID: 00111012**
**Issue date: 10/11/2012** **Revision Date: ---**

## * * * Section 1 – PRODUCT COMPANY IDENTIFICATION * * *

**Product Name:** **SARGENT ACRYLIC PAINT**

SARGENT ART, INC Phone: 1-800-424-3596

100 East Diamond Ave.
Hazleton, PA 18201
www.sargentart.com

Health Emergency – Call local Poison Control Center

**Synonyms:** 30 Series; 8oz Acrylic Paint; 16oz Acrylic Paint; 32oz Acrylic Paint; 64oz. Acrylic Paint. 6ct. Primary Acrylic Set; 12ct. Acrylic Set; 24ct. Acrylic Set.

**Product Codes:** 66-5420

**Product Use:** Arts and Crafts

## * * * Section 2 – HAZARD(S) IDENTIFICATION * * *

### EMERGENCY OVERVIEW

**Color:** various colors
**Physical Form:** liquid

### POTENTIAL HEALTH EFFECTS

**Inhalation:** none
**Skin Contact:** none
**Eye Contact:** none
**Ingestion:** none

## * * * Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS * * *

| CAS | Component | Percent | Symbol | Risk Phrase(s) |
|---|---|---|---|---|
| Not Available | Product has been certified as non-toxic by the US Board Certifies Toxicologist and Conforms to ASTM D-4236 standard practice for Labeling Art Materials for acute and chronic adverse health hazards. | 100 | --- | --- |

## * * * Section 4 – FIRST AID MEASURES * * *

### Inhalation
It is unlikely that emergency treatment will be required. Remove from exposure. Get medical attention, if needed.

### Skin
It is unlikely that emergency treatment will be required. If adverse effects occur, wash with soap or mild detergent and large amounts of water. Get medical attention, if needed.

### Eyes

It is unlikely that emergency treatment will be required. Wash with large amounts of water or normal saline until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

### Ingestion
Rinse mouth thoroughly with water. Get medical attention if any discomfort occurs.

## * * * Section 5 – FIRE FIGHTING MEASURES * * *
See Section 9 for Flammability Properties

**NFPA Ratings: Health:** 1 **Fire:** 1 **Reactivity:** 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Flammable Properties
Slight fire hazard.

### Extinguishing Media
Regular dry chemical, carbon dioxide, water, regular foam

### Fire Fighting Measures
Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

## * * * Section 6 – ACCIDENTAL RELESE MEASURES * * *

### Occupational spill/release
Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

## * * * Section 7 – HANDLING AND STORAGE * * *

### Handling Procedures
Provide adequate ventilation. Wear appropriate protection equipment. Avoid breathing mist or vapor. Avoid contact with eyes and prolonged skin contact. Do not taste or swallow. Keep the workplace clean. Observe good industrial hygiene practices.

### Storage Procedures
Store in a well-ventilated place. Store in closed original container at room temperature.

## * * * Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION * * *

### Component Exposure Limits
ACGIH and EU have not developed exposure limits for any of this product's components.

### Ventilation
Based on available information, additional ventilation is not required.

## PERSONAL PROTECTIVE EQUIPMENT

### Eyes/Face
Eye protection not required under normal conditions.

### Protective Clothing
Protective clothing is not required under normal conditions.

### Glove Recommendations
Protective gloves are not required under normal conditions.

### Respiratory Protection

No respirator is required under normal conditions of use.
Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

## * * * Section 9 – PHYSICAL AND CHEMICAL PROPERTIES * * *

| | | | |
|---|---|---|---|
| **Appearance:** | Liquid | **Flash Point:** | Not available |
| **Physical State:** | Liquid | **Flammability:** | Not available |
| **Physical Form:** | Liquid | **Vapor Pressure:** | Not available |
| **Color:** | Assorted colors | **Vapor Density (air=1):** | Not available |
| **Odor:** | Odorless | **Evaporation Rate:** | Not available |
| **Odor Threshold:** | Not available | **Specific Gravity:** | 1.13 – 1.18 |
| **pH:** | <=9.5 | **Density:** | 9.2 – 9.85 Lbs/Gal |
| **Melting Point:** | Not available | **Water Solubility:** | Soluble |
| **Freezing Point:** | Not available | **Coeff.Water/Oil Dist:** | Not available |
| **Boiling Point:** | Not available | **Volatility:** | Not available |
| **Viscosity:** | 12000 – 45000 cP | | |

## * * * Section 10 – STABILITY AND REACTIVITY * * *

### Chemical Stability
Stable at normal temperatures and pressure.
### Conditions to Avoid
None reported.
### Materials to Avoid
Oxidizing materials.
### Decomposition Products
Oxides of carbon.
### Possibility of Hazardous Reactions
Will not polymerize.

## * * * Section 11 – TOXICOLOGICAL INFORMATION * * *

### Component Analysis – LD50/LC50
The components of this material have been reviewed in various sources and no selected endpoints have been identified.
### RTECS Acute Toxicity (selected)
The components of this material have been reviewed and RTECS publishes no data as of the date on this document.
### Component Carcinogenicity
None of this product's components are listed be ACGIH, IARC, or DFG.
### RTECS Irritation
The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

## * * * Section 12 – ECOLOGICAL INFORMATION * * *

### Component Analysis – Aquatic Toxicity

No LOLI ecotoxicity data is available for this product's components.

## * * * Section 13 – DISPOSAL CONSIDERATION * * *

### Disposal Methods
Dispose in accordance with all applicable regulations.

### Component Waste Numbers
The U.S. EPA has not published waste numbers for this product's components.

## * * * Section 14 – TRANSPORT INFORMATION * * *

**US DOT Information:** Not Regulated.
**TDG Information:** Not Regulated.
**ADR Information:** Not Regulated.
**RID Information:** Not Regulated.
**IATA Information:** Not Regulated.
**ICAO Information:** Not Regulated.
**IMDG Information:** Not Regulated.

## * * * Section 15 – REGULATORY INFORMATION * * *

### U.S. Federal Regulations
None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

### SARA Section 311/312 (40 CFR 370 Subparts B and C)
**Acute Health:** No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

### U.S. State Regulations
None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

### Canada
This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.
WHMIS CLASSIFICATION: Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

### Component Analysis – Inventory
No information is available.

## * * * Section 16 – OTHER INFORMATION * * *

### Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR – European Road Transport; AU – Australia; BOD – Biochemical Oxygen Demand; C – Celsius; CA – Canada; CAS – Chemical Abstracts Service;

CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; CN – China; CPR – Controlled Products Regulations; DFG – Deutsche Forschungsgemeinschaft; DOT – Department of Transportation; DSL – Domestic Substances List; EEC – European Economic Community; EINECS – European Inventory of Existing Commercial Chemical Substances; EPA – Environmental Protection Agency; EU – European Union; F – Fahrenheit; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; ICAO – International Civil Agency Organization; IDL – Ingredient Disclosure List; IDLH – Immediately Dangerous to Life and Health; IMDG – International Maritime Dangerous Goods; JP – Japan; Kow – Octanol/water partition coefficient; KR – Korea; LEL – Lower Explosive Limit; LOLI – List Of Lists – ChemADVIUSOR's Regulatory Database; MAK – Maximum Concentration Value in the Workplace; MEL – Maximum Exposure Limits; NFPA – National Fire Protection Agency; NIOSH – National Institute for Occupational Safety and Health; NJTSR – New Jersey Trade Secret Registry; NTP – National Toxicology Program; NZ – New Zealand; OSHA – Occupational Safety and Health Administration; PH  Philippines; RCRA – Resource Conservation and Recovery Act; RID – European Rail Transport; RTECS – Registry of Toxic Effects of Chemical Substances; SARA – Superfund Amendments and Reauthorization Act; STEL – Short-term Exposure Limit; TDG – Transportation of Dangerous Goods; TSCA – Toxic Substances Control Act; TWA – Time Weighted Average; UEL – Upper Explosive Limit; US – United States.

### Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

# Material Safety Data Sheet

**Material Name: BEST TEST Paper Cement** **MSDS ID: UR-002**

## * * *Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION* * *

**Material Name:** BEST TEST Paper Cement

**Manufacturer Information**

Union Rubber, Inc.
232 Allen Street
P.O. Box 1040
Trenton, NJ 08606

Phone: 609-396-9328
Fax: 609-396-3587

Emergency: Chemtrec: 800-424-9300

## * * *Section 2 - HAZARDS IDENTIFICATION* * *

**NFPA Ratings: Health:** 2 **Fire:** 3 **Reactivity:** 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**EMERGENCY OVERVIEW**

**Color:** pale, straw colored
**Physical Form:** liquid
**Odor:** pleasant odor
**Health Hazards:** respiratory tract irritation, skin irritation, eye irritation, central nervous system depression
**Physical Hazards:** Flammable liquid and vapor. Vapor may cause flash fire. Electrostatic charges may be generated by flow, agitation, etc.

## POTENTIAL HEALTH EFFECTS

**Inhalation**

**Short Term:** irritation, headache, drowsiness, dizziness, emotional disturbances, loss of coordination, fatigue, nausea, suffocation, unconsciousness
**Long Term:** no information is available

**Skin**

**Short Term:** irritation
**Long Term:** irritation

**Eye**

**Short Term:** irritation
**Long Term:** irritation

**Ingestion**

**Short Term:** gastrointestinal irritation, nausea, vomiting, diarrhea, stomach pain, headache, drowsiness, dizziness, emotional disturbances, loss of coordination, unconsciousness
**Long Term:** no information is available

**Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is a controlled product under Canadian WHMIS regulations.

## * * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

| CAS | Component | Percent |
|---|---|---|
| 142-82-5 | Heptane | 87 |
| 9003-31-0 | 1,3-Butadiene, 2-methyl-, homopolymer | 12.9 |
| Not Available | Non-hazardous processing aids | 0.1 |

**Component Related Regulatory Information**

This product may be regulated, have exposure limits or other information identified as the following: Heptane isomers.

## * * *Section 4 - FIRST AID MEASURES* * *

**Inhalation**

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**Skin**

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

**Eyes**

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

**Ingestion**

If a large amount is swallowed, get medical attention.

**Note to Physicians**

For inhalation, consider oxygen.

## * * *Section 5 - FIRE FIGHTING MEASURES* * *

See Section 9 for Flammability Properties

**Flammable Properties**

Severe fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive. Electrostatic discharges may be generated by flow or agitation resulting in ignition or explosion.

**Extinguishing Media**

regular dry chemical, carbon dioxide, water spray, regular foam

**Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

**Fire Fighting Measures**

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Evacuation radius: 800 meters (1/2 mile). Water may be ineffective.

**Hazardous Combustion Products**

**Combustion:** aldehydes, oxides of carbon

**Sensitivity to Mechanical Impact**

Not sensitive

**Sensitivity to Static Discharge**

Yes

## * * *Section 6 - ACCIDENTAL RELEASE MEASURES* * *

**Occupational spill/release**

Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. **Small spills:** Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. **Large spills:** Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry.

## * * *Section 7 - HANDLING AND STORAGE* * *

**Handling Procedures**

Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Wash thoroughly after handling. Keep away from heat, sparks and flame.

**Storage Procedures**

Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106. Grounding and bonding required. Avoid heat, flames, sparks and other sources of ignition. Keep separated from incompatible substances. Store in a well-ventilated area. Keep container tightly closed.

## * * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

**Component Exposure Limits**

**Heptane (142-82-5)**

| | |
|---|---|
| **ACGIH:** | 400 ppm TWA |
| | 500 ppm STEL |
| **NIOSH:** | 85 ppm TWA; 350 mg/m3 TWA |
| | 440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min) |
| | 750 ppm IDLH |
| **Europe:** | 500 ppm TWA; 2085 mg/m3 TWA |
| **OSHA (US):** | 500 ppm TWA; 2000 mg/m3 TWA |
| **Mexico:** | 400 ppm TWA; 1600 mg/m3 TWA |
| | 500 ppm STEL; 2000 mg/m3 STEL |
| | Skin - potential for cutaneous absorption |

**Ventilation**

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes/Face**

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Protective Clothing**

Wear appropriate chemical resistant clothing.

**Glove Recommendations**

Wear appropriate chemical resistant gloves.

**Respiratory Protection**

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.
Respiratory protection is ranked in order from minimum to maximum.
Consider warning properties before use.
Any chemical cartridge respirator with organic vapor cartridge(s).
Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).
Any air-purifying respirator with a full facepiece and an organic vapor canister.
**For Unknown Concentrations or Immediately Dangerous to Life or Health** -
Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.
Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

## * * *Section 9 - PHYSICAL AND CHEMICAL PROPERTIES* * *

| | | | |
|---|---|---|---|
| **Physical State:** | Liquid | **Appearance:** | pale, straw colored, liquid |
| **Color:** | pale, straw colored | **Physical Form:** | liquid |
| **Odor:** | pleasant odor | **Odor Threshold:** | Not available |
| **pH:** | essentially neutral | **Melting/Freezing Point:** | Not available |
| **Boiling Point:** | 92-100 °C | **Flash Point:** | -6.7 °C |
| **Evaporation Rate:** | 4.5 (butyl acetate=1) | **LEL:** | 1.1 % (estimated) |
| **UEL:** | Not available | **Vapor Pressure:** | ~40 mmHg @20 °C |
| **Vapor Density (air = 1):** | ~3.5 | **Density:** | Not available |
| **Specific Gravity (water = 1):** | 0.70 | **Water Solubility:** | Not available |
| **Coeff. Water/Oil Dist:** | Not available | **Auto Ignition:** | Not available |
| **Viscosity:** | 6.5 (Gardner scale) | **VOC:** | 5.04 lbs/gal |
| **Volatility:** | 91 % @25 °C | | |

## * * *Section 10 - STABILITY AND REACTIVITY* * *

**Chemical Stability**

Stable at normal temperatures and pressure.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.

**Materials to Avoid**

calcium hypochlorite, combustible materials, concentrated oxygen, liquid chlorine, oxidizing materials, sodium hypochlorite

**Hazardous Decomposition**

**Combustion:** aldehydes, oxides of carbon

**Possibility of Hazardous Reactions**

Will not polymerize.

## * * *Section 11 - TOXICOLOGICAL INFORMATION* * *

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

**Heptane (142-82-5)**

Inhalation LC50 Rat 103 g/m3 4 h; Oral LD50 Mouse 5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

**Irritation**

Causes skin, eye and respiratory irritation.

**Target Organs**

central nervous system

**Medical Conditions Aggravated by Exposure**

respiratory disorders, skin disorders and allergies

**Tumorigenic**

No data available for the mixture.

**Mutagenic**

No data available for the mixture.

**Reproductive Effects**

No data available for the mixture.

## * * *Section 12 - ECOLOGICAL INFORMATION* * *

**Component Analysis - Aquatic Toxicity**

**Heptane (142-82-5)**

**Fish:** 96 Hr LC50 Cichlid fish: 375.0 mg/L

**Invertebrate:** 24 Hr EC50 Daphnia magna: >10 mg/L

## * * *Section 13 - DISPOSAL CONSIDERATIONS* * *

**Disposal Methods**

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

## * * *Section 14 - TRANSPORT INFORMATION* * *

**US DOT Information (49 CFR)**

**Shipping Name:** Adhesives
**UN/NA #:** UN1133 **Hazard Class:** 3 **Packing Group:** II
**Required Label(s):** 3

**TDG Information**

**Shipping Name:** Adhesives
**UN #:** UN1133 **Hazard Class:** 3 **Packing Group:** II
**Required Label(s):** 3

**IATA Information**

**Shipping Name:** Adhesives
**UN #:** UN1133 **Hazard Class:** 3 **Packing Group:** II
**Required Label(s):** 3

## * * *Section 15 - REGULATORY INFORMATION* * *

**U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

**Heptane (142-82-5)**

**TSCA 12b:** Section 4, 1 % de minimus concentration

**SARA 311/312**

**Acute Health:** Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactive:** No

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS | CA | MA | MN | NJ | PA | RI |
|---|---|---|---|---|---|---|---|
| Heptane | 142-82-5 | Yes | Yes | Yes | Yes | Yes | Yes |

Not regulated under California Proposition 65

**Canada**

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which fall under WHMIS criteria specified in the Controlled Products Regulations and present above the threshold limits listed on the IDL.

**Heptane (142-82-5)**

1 %

**WHMIS Classification**

B2, D2B.

**U.S. Inventory (TSCA)**

All the components of this substance are listed on or are exempt from the inventory.

**Component Analysis - Inventory**

| Component | CAS | US | CA |
|---|---|---|---|
| Heptane | 142-82-5 | Yes | DSL |
| 1,3-Butadiene, 2-methyl-, homopolymer | 9003-31-0 | Yes | DSL |

## * * *Section 16 - OTHER INFORMATION* * *

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

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**New MSDS** 5/20/2011
**MSDS Update** 7/19/2011

End of Sheet UR-002

# SAFETY DATA SHEET

7020

## Section 1. Identification

**Product name** : KRYLON® EASY-TACK™ Repositionable Adhesive

**Product code** : 7020

**Other means of identification** : Not available.

**Product type** : Aerosol.

**Relevant identified uses of the substance or mixture and uses advised against**

Not applicable.

**Manufacturer** : Krylon Products Group
101 W. Prospect Avenue
Cleveland, OH 44115

**Emergency telephone number of the company** : US / Canada: (216) 566-2917
Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

**Product Information Telephone Number** : US / Canada: (800) 457-9566
Mexico: Not Available

**Regulatory Information Telephone Number** : US / Canada: (216) 566-2902
Mexico: Not Available

**Transportation Emergency Telephone Number** : US / Canada: (216) 566-2917
Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE AEROSOLS - Category 1
GASES UNDER PRESSURE - Compressed gas
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 28.9%
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 30%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 59.2%

**GHS label elements**

**Hazard pictograms** :

**Signal word** : Danger

## Section 2. Hazards identification

**Hazard statements** : Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
Causes skin irritation.
May be fatal if swallowed and enters airways.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

**General** : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.

**Response** : Get medical attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements**

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

**CAS number/other identifiers**

| Ingredient name | % by weight | CAS number |
|---|---|---|
| Methyl Acetate | 47.99 | 79-20-9 |
| Propane | 10.2 | 74-98-6 |
| Butane | 9.8 | 106-97-8 |
| Heptane | 7.66 | 142-82-5 |
| Hexamethyldisiloxane | 1.28 | 107-46-0 |
| p-Chlorobenzotrifluoride | 1.02 | 98-56-6 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

# Section 4. First aid measures

## Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

**Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

**Skin contact** : Adverse symptoms may include the following:
irritation
redness

**Ingestion** : Adverse symptoms may include the following:
nausea or vomiting

## Section 4. First aid measures

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**See toxicological information (Section 11)**

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
carbonyl halides
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** :

## Section 6. Accidental release measures

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits (OSHA United States)

| Ingredient name | Exposure limits |
|---|---|
| Methyl Acetate | **ACGIH TLV (United States, 3/2016).**<br>TWA: 200 ppm 8 hours.<br>TWA: 606 mg/m³ 8 hours.<br>STEL: 250 ppm 15 minutes.<br>STEL: 757 mg/m³ 15 minutes.<br>**NIOSH REL (United States, 10/2016).**<br>TWA: 200 ppm 10 hours.<br>TWA: 610 mg/m³ 10 hours.<br>STEL: 250 ppm 15 minutes.<br>STEL: 760 mg/m³ 15 minutes.<br>**OSHA PEL (United States, 6/2016).** |

| | |
|---|---|
| | TWA: 200 ppm 8 hours.<br>TWA: 610 mg/m³ 8 hours. |
| Propane | **NIOSH REL (United States, 10/2016).**<br>TWA: 1000 ppm 10 hours.<br>TWA: 1800 mg/m³ 10 hours.<br>**OSHA PEL (United States, 6/2016).**<br>TWA: 1000 ppm 8 hours.<br>TWA: 1800 mg/m³ 8 hours. |
| Butane | **NIOSH REL (United States, 10/2016).**<br>TWA: 800 ppm 10 hours.<br>TWA: 1900 mg/m³ 10 hours.<br>**ACGIH TLV (United States, 3/2016).**<br>STEL: 1000 ppm 15 minutes. |
| Heptane | **ACGIH TLV (United States, 3/2016).**<br>TWA: 400 ppm 8 hours.<br>TWA: 1640 mg/m³ 8 hours.<br>STEL: 500 ppm 15 minutes.<br>STEL: 2050 mg/m³ 15 minutes.<br>**NIOSH REL (United States, 10/2016).**<br>TWA: 85 ppm 10 hours.<br>TWA: 350 mg/m³ 10 hours.<br>CEIL: 440 ppm 15 minutes.<br>CEIL: 1800 mg/m³ 15 minutes.<br>**OSHA PEL (United States, 6/2016).**<br>TWA: 500 ppm 8 hours.<br>TWA: 2000 mg/m³ 8 hours. |
| Hexamethyldisiloxane | None. |
| p-Chlorobenzotrifluoride | None. |

**Occupational exposure limits (Canada)**

| Ingredient name | Exposure limits |
|---|---|
| Methyl Acetate | **CA Alberta Provincial (Canada, 4/2009).**<br>8 hrs OEL: 606 mg/m³ 8 hours.<br>15 min OEL: 757 mg/m³ 15 minutes.<br>15 min OEL: 250 ppm 15 minutes.<br>8 hrs OEL: 200 ppm 8 hours.<br>**CA British Columbia Provincial (Canada, 7/2016).**<br>TWA: 200 ppm 8 hours.<br>STEL: 250 ppm 15 minutes.<br>**CA Ontario Provincial (Canada, 7/2015).**<br>TWA: 200 ppm 8 hours.<br>STEL: 250 ppm 15 minutes.<br>**CA Québec Provincial (Canada, 1/2014).**<br>TWAEV: 200 ppm 8 hours.<br>TWAEV: 606 mg/m³ 8 hours.<br>STEV: 250 ppm 15 minutes.<br>STEV: 757 mg/m³ 15 minutes.<br>**CA Saskatchewan Provincial (Canada, 7/2013).**<br>STEL: 250 ppm 15 minutes.<br>TWA: 200 ppm 8 hours. |
| Propane | **CA Alberta Provincial (Canada, 4/2009).**<br>8 hrs OEL: 1000 ppm 8 hours.<br>**CA British Columbia Provincial (Canada, 7/2016).** |

## Section 8. Exposure controls/personal protection

| | |
|---|---|
| | TWA: 1000 ppm 8 hours.<br>**CA Québec Provincial (Canada, 1/2014).**<br>TWAEV: 1000 ppm 8 hours.<br>TWAEV: 1800 mg/m³ 8 hours.<br>**CA Ontario Provincial (Canada, 7/2015).**<br>TWA: 1000 ppm 8 hours.<br>**CA Saskatchewan Provincial (Canada, 7/2013).**<br>STEL: 1250 ppm 15 minutes.<br>TWA: 1000 ppm 8 hours. |
| Butane | **CA Alberta Provincial (Canada, 4/2009).**<br>8 hrs OEL: 1000 ppm 8 hours.<br>**CA British Columbia Provincial (Canada, 7/2016).**<br>TWA: 600 ppm 8 hours.<br>STEL: 750 ppm 15 minutes.<br>**CA Québec Provincial (Canada, 1/2014).**<br>TWAEV: 800 ppm 8 hours.<br>TWAEV: 1900 mg/m³ 8 hours.<br>**CA Ontario Provincial (Canada, 7/2015).**<br>TWA: 800 ppm 8 hours.<br>**CA Saskatchewan Provincial (Canada, 7/2013).**<br>STEL: 1250 ppm 15 minutes.<br>TWA: 1000 ppm 8 hours. |
| Heptane | **CA Alberta Provincial (Canada, 4/2009).**<br>15 min OEL: 2050 mg/m³ 15 minutes.<br>8 hrs OEL: 1640 mg/m³ 8 hours.<br>8 hrs OEL: 400 ppm 8 hours.<br>15 min OEL: 500 ppm 15 minutes.<br>**CA British Columbia Provincial (Canada, 7/2016).**<br>TWA: 400 ppm 8 hours.<br>STEL: 500 ppm 15 minutes.<br>**CA Ontario Provincial (Canada, 7/2015).**<br>TWA: 400 ppm 8 hours.<br>STEL: 500 ppm 15 minutes.<br>**CA Québec Provincial (Canada, 1/2014).**<br>TWAEV: 400 ppm 8 hours.<br>TWAEV: 1640 mg/m³ 8 hours.<br>STEV: 500 ppm 15 minutes.<br>STEV: 2050 mg/m³ 15 minutes.<br>**CA Saskatchewan Provincial (Canada, 7/2013).**<br>STEL: 500 ppm 15 minutes.<br>TWA: 400 ppm 8 hours. |

**Occupational exposure limits (Mexico)**

| Ingredient name | Exposure limits |
|---|---|
| Methyl Acetate | **NOM-010-STPS-2014 (Mexico, 4/2016).**<br>TWA: 200 ppm 8 hours.<br>STEL: 250 ppm 15 minutes. |
| Propane | **NOM-010-STPS-2014 (Mexico, 4/2016).**<br>TWA: 1000 ppm 8 hours. |
| Butane | **NOM-010-STPS-2014 (Mexico, 4/2016).**<br>TWA: 1000 ppm 8 hours. |
| Heptane | **NOM-010-STPS-2014 (Mexico, 4/2016).**<br>TWA: 400 ppm 8 hours. |

## Section 8. Exposure controls/personal protection

| | |
|---|---|
| | STEL: 500 ppm 15 minutes. |

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Color** : Not available.

**Odor** : Not available.

**Odor threshold** : Not available.

**pH** : Not available.

**Melting point** : Not available.

**Boiling point** : Not available.

**Flash point** : Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]

**Evaporation rate** : 5.3 (butyl acetate = 1)

## Section 9. Physical and chemical properties

**Flammability (solid, gas)** : Not available.

**Lower and upper explosive (flammable) limits** : Lower: 0.9%
Upper: 18.6%

**Vapor pressure** : 101.3 kPa (760 mm Hg) [at 20°C]

**Vapor density** : 1.55 [Air = 1]

**Relative density** : 0.81

**Solubility** : Not available.

**Partition coefficient: n-octanol/water** : Not available.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**Viscosity** : Kinematic (40°C (104°F)): <0.205 $cm^2/s$ (<20.5 cSt)

**Molecular weight** : Not applicable.

**Aerosol product**

**Type of aerosol** : Spray

**Heat of combustion** : 33.314 kJ/g

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

**Incompatible materials** : No specific data.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Information on toxicological effects**

**Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| Methyl Acetate | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | >5 g/kg | - |
| Butane | LC50 Inhalation Vapor | Rat | 658000 $mg/m^3$ | 4 hours |
| Heptane | LC50 Inhalation Gas. | Rat | 48000 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat | 103 $g/m^3$ | 4 hours |
| Hexamethyldisiloxane | LC50 Inhalation Gas. | Rat | 15956 ppm | 4 hours |
| p-Chlorobenzotrifluoride | LD50 Oral | Rat | 13 g/kg | - |

**Irritation/Corrosion**

# Section 11. Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| Methyl Acetate | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| Hexamethyldisiloxane | Eyes - Mild irritant | Rabbit | - | 24 hours 100 microliters | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |

## Sensitization

Not available.

## Mutagenicity

Not available.

## Carcinogenicity

Not available.

## Reproductive toxicity

Not available.

## Teratogenicity

Not available.

## Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| Methyl Acetate | Category 3 | Not applicable. | Narcotic effects |
| Propane | Category 3 | Not applicable. | Respiratory tract irritation and Narcotic effects |
| Butane | Category 3 | Not applicable. | Respiratory tract irritation and Narcotic effects |
| Heptane | Category 3 | Not applicable. | Respiratory tract irritation and Narcotic effects |
| p-Chlorobenzotrifluoride | Category 3 | Not applicable. | Respiratory tract irritation |

## Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| Propane | Category 2 | Not determined | Not determined |
| Butane | Category 2 | Not determined | Not determined |
| Heptane | Category 2 | Not determined | Not determined |

## Aspiration hazard

| Name | Result |
|---|---|
| Propane | ASPIRATION HAZARD - Category 1 |
| Butane | ASPIRATION HAZARD - Category 1 |
| Heptane | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

## Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

**Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

**Skin contact** : Adverse symptoms may include the following:
irritation
redness

**Ingestion** : Adverse symptoms may include the following:
nausea or vomiting

## Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : May cause damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

## Numerical measures of toxicity

### Acute toxicity estimates

| Route | ATE value |
|---|---|
| Inhalation (gases) | 509449.2 ppm |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| Methyl Acetate | Acute LC50 320000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| Heptane | Acute LC50 375000 µg/l Fresh water | Fish - Oreochromis mossambicus | 96 hours |
| Hexamethyldisiloxane | NOEC 0.08 mg/l | Daphnia | - |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| Heptane | - | 552 | high |
| Hexamethyldisiloxane | - | 1290 to 2410 | high |

### Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | IATA | IMDG |
|---|---|---|---|---|---|
| UN number | UN1950 | UN1950 | UN1950 | UN1950 | UN1950 |
| UN proper shipping name | AEROSOLS | AEROSOLS | AEROSOLS | AEROSOLS, flammable | AEROSOLS |
| Transport hazard class(es) | 2.1   | 2.1  | 2.1  | 2.1  | 2.1  |
| Packing group | - | - | - | - | - |

## Section 14. Transport information

| | | | | | |
|---|---|---|---|---|---|
| **Environmental hazards** | No. | No. | No. | No. | No. |
| **Additional information** | - <br><br> **ERG No.** <br> 126 | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 13-2.17 (Class 2). <br> **ERG No.** <br> 126 | - <br><br> **ERG No.** <br> 126 | - | **Emergency schedules** F-D, S-U |

**Special precautions for user** : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

**Proper shipping name** : Not available.

**Ship type** : Not available.

**Pollution category** : Not available.

## Section 15. Regulatory information

**SARA 313**

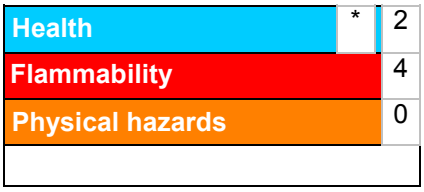
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

**California Prop. 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## Section 16. Other information

**Hazardous Material Information System (U.S.A.)**




**The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.**

**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.**

**Procedure used to derive the classification**

# Section 16. Other information

| Classification | Justification |
|---|---|
| FLAMMABLE AEROSOLS - Category 1 | On basis of test data |
| GASES UNDER PRESSURE - Compressed gas | Calculation method |
| SKIN CORROSION/IRRITATION - Category 2 | Calculation method |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | Calculation method |
| ASPIRATION HAZARD - Category 1 | Calculation method |

**History**

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**Version** : 5

**Key to abbreviations** : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

**Notice to reader**

**It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.**

# SAFETY DATA SHEET

## 1. Identification

| | |
|---|---|
| Product number | 1000002385 |
| Product identifier | **CAMIE 380 SCREEN PRINTERS' ADHESIVE** |
| Revision date | 11-20-2014 |
| Company information | Camie-Campbell, Inc.<br>1005 S. Westgate Drive<br>Addison, IL 60101 United States<br>www.camie.com |
| Company phone | General Assistance 1-800-325-9572 |
| Emergency telephone US | 1-866-836-8855 |
| Emergency telephone outside US | 1-952-852-4646 |
| Version # | 02 |
| Supersedes date | 11-20-2014 |
| Recommended use | Adhesive |
| Recommended restrictions | None known. |

## 2. Hazard(s) identification

| | | |
|---|---|---|
| Physical hazards | Flammable aerosols | Category 1 |
| Health hazards | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2A |
| | Reproductive toxicity (fertility) | Category 2 |
| | Specific target organ toxicity, single exposure | Category 3 narcotic effects |
| | Specific target organ toxicity, repeated exposure | Category 2 |
| | Aspiration hazard | Category 1 |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 2 |
| | Hazardous to the aquatic environment, long-term hazard | Category 2 |
| OSHA defined hazards | Not classified. | |

Label elements

| | |
|---|---|
| Signal word | Danger |
| Hazard statement | Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. |
| Precautionary statement | |
| Prevention | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. |

| | |
|---|---|
| Response | If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage. |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | None. |

## 3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| n-Hexane | | 110-54-3 | 20 - 40 |
| Acetone | | 67-64-1 | 10 - 20 |
| Propane | | 74-98-6 | 10 - 20 |
| 2-Methylpentane | | 107-83-5 | 2.5 - 10 |
| 3-Methylpentane | | 96-14-0 | 2.5 - 10 |
| Butane | | 106-97-8 | 2.5 - 10 |
| Dimethyl Ether | | 115-10-6 | 2.5 - 10 |
| 2,2-Dimethylbutane | | 75-83-2 | 1 - 2.5 |
| 2,3-Dimethylbutane | | 79-29-8 | 1 - 2.5 |
| Other components below reportable levels | | | 20 - 40 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

| | |
|---|---|
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |
| General information | IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |

## 5. Fire-fighting measures

| | |
|---|---|
| Suitable extinguishing media | Powder. Alcohol resistant foam. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | Contents under pressure. Pressurized container may explode when exposed to heat or flame. |
| Special protective equipment and precautions for firefighters | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |

| | |
|---|---|
| Fire-fighting equipment/instructions | Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes. |
| General fire hazards | Extremely flammable aerosol. |

## 6. Accidental release measures

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. |

## 7. Handling and storage

| | |
|---|---|
| Precautions for safe handling | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Level 3 Aerosol.<br><br>Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). |

## 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

| Components | Type | Value |
|---|---|---|
| Dimethyl Ether (CAS 115-10-6) | STEL | 2 ppm |
| | TWA | 0.75 ppm |

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value |
|---|---|---|
| Acetone (CAS 67-64-1) | PEL | 2400 mg/m3<br>1000 ppm |
| n-Hexane (CAS 110-54-3) | PEL | 1800 mg/m3<br>500 ppm |
| Propane (CAS 74-98-6) | PEL | 1800 mg/m3<br>1000 ppm |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|---|---|---|
| 2,2-Dimethylbutane (CAS 75-83-2) | STEL | 1000 ppm |
| | TWA | 500 ppm |
| 2,3-Dimethylbutane (CAS 79-29-8) | STEL | 1000 ppm |
| | TWA | 500 ppm |
| 2-Methylpentane (CAS 107-83-5) | STEL | 1000 ppm |
| | TWA | 500 ppm |
| 3-Methylpentane (CAS 96-14-0) | STEL | 1000 ppm |
| | TWA | 500 ppm |
| Acetone (CAS 67-64-1) | STEL | 750 ppm |
| | TWA | 500 ppm |
| Butane (CAS 106-97-8) | STEL | 1000 ppm |
| Dimethyl Ether (CAS 115-10-6) | Ceiling | 0.3 ppm |
| n-Hexane (CAS 110-54-3) | TWA | 50 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|---|---|---|
| Acetone (CAS 67-64-1) | TWA | 590 mg/m3 |
| | | 250 ppm |
| Butane (CAS 106-97-8) | TWA | 1900 mg/m3 |
| | | 800 ppm |
| Dimethyl Ether (CAS 115-10-6) | Ceiling | 0.1 ppm |
| | TWA | 0.016 ppm |
| n-Hexane (CAS 110-54-3) | TWA | 180 mg/m3 |
| | | 50 ppm |
| Propane (CAS 74-98-6) | TWA | 1800 mg/m3 |
| | | 1000 ppm |

US. Workplace Environmental Exposure Level (WEEL) Guides

| Components | Type | Value |
|---|---|---|
| Dimethyl Ether (CAS 115-10-6) | TWA | 1880 mg/m3 |
| | | 1000 ppm |

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| Acetone (CAS 67-64-1) | 50 mg/l | Acetone | Urine | * |
| n-Hexane (CAS 110-54-3) | 0.4 mg/l | 2,5-Hexanedion, without hydrolysis | Urine | * |

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

| | |
|---|---|
| Hand protection | Wear appropriate chemical resistant gloves. |
| Skin protection | |
| Other | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. |
| Skin protection | |
| Respiratory protection | If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. Physical and chemical properties

| | |
|---|---|
| Appearance | |
| Physical state | Gas. Form |
| | Aerosol. Color |
| | Not available. |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | 202.57 °F (94.76 °C) estimated |
| Flash point | -156.0 °F (-104.4 °C) propellant estimated |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | 1.9 % estimated |
| Flammability limit - upper (%) | 8.4 % estimated |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 134.08 psig @70F estimated |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | 496.4 °F (258 °C) estimated |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Specific gravity | 0.543 estimated |

## 10. Stability and reactivity

| | |
|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. Nitrates. Fluorine. Chlorine. |

| | |
|---|---|
| Hazardous decomposition products | No hazardous decomposition products are known. |

## 11. Toxicological information

Information on likely routes of exposure

| | |
|---|---|
| Ingestion | Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. |
| Inhalation | May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Narcotic effects. Prolonged inhalation may be harmful. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes serious eye irritation. |
| Symptoms related to the physical, chemical and toxicological characteristics | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |

Information on toxicological effects

Acute toxicity: May be fatal if swallowed and enters airways. Narcotic effects.

| Product | Species | Test Results |
|---|---|---|
| 14 OZ CAMIE 380 SCRN PRNTRS ADH LT 12PK (CAS Mixture) | | |
| Acute | | |
| Dermal | | |
| LD50 | Guinea pig | 46091.5859 mg/kg, 24 Hours estimated |
| | | 58.3438 ml/kg, 24 Hours estimated |
| | Rabbit | 9116.9619 mg/kg, 24 Hours estimated |
| | | 24.0215 ml/kg, 4 Hours estimated |
| | Rat | 89158.3438 ml/kg, 24 Hours estimated |
| | | 11900.3779 mg/kg, 24 Hours estimated |
| Inhalation | | |
| LC100 | Cat | 427.7668 % estimated |
| LC50 | Mouse | 5868.063 mg/l estimated |
| | | 247.1542 %, 120 Minutes estimated |
| | | 76.0474 mm/l, 2 Hours estimated |
| | Rat | 61897.8594 ppm, 4 Hours estimated |
| | | 24021.502 ppm, 24 Hours estimated |
| | | 1641.8082 mg/l/4h estimated |
| | | 41.4274 mg/l estimated |
| NOEL | Rat | 22.4444 ppm, 6 Hours estimated |
| Oral | | |
| LD50 | Rat | 4297.1499 mg/kg estimated |
| | | 12.2091 ml/kg estimated |
| | Wistar rat | 235.4107 g/kg estimated |

| Components | Species | Test Results |
|---|---|---|
| Acetone (CAS 67-64-1) | | |
| Acute | | |
| Dermal | | |
| LD50 | Guinea pig | > 7426 mg/kg, 24 Hours |
| | | > 9.4 ml/kg, 24 Hours |
| | Rabbit | > 7426 mg/kg, 24 Hours |
| | | > 9.4 ml/kg, 24 Hours |

| Components | Species | Test Results |
|---|---|---|
| Inhalation | | |
| LC50 | Rat | 55700 ppm, 3 Hours |
| | | 132 mg/l, 3 Hours |
| | | 50.1 mg/l |
| Oral | | |
| LD50 | Rat | 5800 mg/kg |
| | | 2.2 ml/kg |
| Butane (CAS 106-97-8) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Mouse | 1237 mg/l, 120 Minutes |
| | | 52 %, 120 Minutes |
| | Rat | 1355 mg/l |
| Dimethyl Ether (CAS 115-10-6) | | |
| Acute | | |
| Inhalation | | |
| NOEL | Rat | 2 ppm, 6 Hours |
| Oral | | |
| LD50 | Rat | 460 mg/kg |
| n-Hexane (CAS 110-54-3) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg, 4 Hours |
| | | > 5 ml/kg, 4 Hours |
| Inhalation | | |
| LC50 | Rat | > 5000 ppm, 24 Hours |
| | | > 31.86 mg/l |
| | | 73860 ppm, 4 Hours |
| Oral | | |
| LD50 | Rat | 24 ml/kg |
| | | 24 g/kg |
| | Wistar rat | 49 g/kg |
| Propane (CAS 74-98-6) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Mouse | 1237 mg/l, 120 Minutes |
| | | 52 %, 120 Minutes |
| | Rat | 1355 mg/l |
| | | 658 mg/l/4h |

* Estimates for product may be based on additional component data not shown.

| | |
|---|---|
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/eye irritation | Causes serious eye irritation. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not available. |
| Skin sensitization | This product is not expected to cause skin sensitization. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

| | |
|---|---|
| Reproductive toxicity | Suspected of damaging fertility. |
| Specific target organ toxicity - single exposure | May cause drowsiness and dizziness. |
| Specific target organ toxicity - repeated exposure | Respiratory system. Skin. Central nervous system. Eyes. Peripheral nervous system. May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | May be fatal if swallowed and enters airways. |
| Chronic effects | Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure. |

## 12. Ecological information

Ecotoxicity: Toxic to aquatic life with long lasting effects.

| Product | | Species | Test Results |
|---|---|---|---|
| 14 OZ CAMIE 380 SCRN PRNTRS ADH LT 12PK (CAS Mixture) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Daphnia | 134.7709 mg/L, 48 Hours estimated |
| Fish | LC50 | Fish | 10.4372 mg/L, 96 Hours estimated |

| Components | | Species | Test Results |
|---|---|---|---|
| Acetone (CAS 67-64-1) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 21.6 - 23.9 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours |
| Dimethyl Ether (CAS 115-10-6) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) | 4.3 - 7.8 mg/l, 48 hours |
| Fish | LC50 | Striped bass (Morone saxatilis) | 10.302 - 16.743 mg/l, 96 hours |
| n-Hexane (CAS 110-54-3) | | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 2.101 - 2.981 mg/l, 96 hours |

* Estimates for product may be based on additional component data not shown.

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data available.

Partition coefficient n-octanol / water (log Kow)

| | |
|---|---|
| 2,2-Dimethylbutane | 3.82 |
| 2,3-Dimethylbutane | 3.42 |
| 2-Methylpentane | 3.74 |
| 3-Methylpentane | 3.6 |
| Acetone | -0.24 |
| Butane | 2.89 |
| Dimethyl Ether | 0.1 |
| n-Hexane | 3.9 |
| Propane | 2.36 |

Mobility in soil: No data available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations: Dispose in accordance with all applicable regulations.

| | |
|---|---|
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| US RCRA Hazardous Waste U List: Reference | |
| Acetone (CAS 67-64-1) | U002 |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers. |

## 14. Transport information

DOT

| | |
|---|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, flammable |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | - |
| Label(s) | None |
| Packing group | Not applicable. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions | N82 |
| Packaging exceptions | 306 |
| Packaging non bulk | None |
| Packaging bulk | None |

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

| | |
|---|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, flammable |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | - |
| Label(s) Packing | None |
| group Environmental | Not applicable. |
| hazards ERG Code | Yes |
| | 10L |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |
| Other information | |
| Passenger and cargo aircraft | Allowed. |
| Cargo aircraft only | Allowed. |
| Packaging Exceptions | LTD QTY |

IMDG

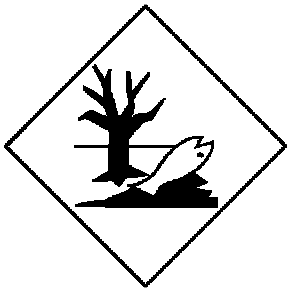
| | |
|---|---|
| UN number | UN1950 |
| UN proper shipping name | AEROSOLS |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | - |
| Label(s) Packing | None |
| group Environmental | Not applicable. |
| hazards | |
| Marine pollutant | Yes |
| EmS | Not available. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |
| Packaging Exceptions | LTD QTY |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable.

DOT


IATA; IMDG


Marine pollutant



General information | IMDG Regulated Marine Pollutant.

## 15. Regulatory information

US federal regulations | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

| | |
|---|---|
| Acetone (CAS 67-64-1) | Listed. |
| n-Hexane (CAS 110-54-3) | Listed. |

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories | Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

| Chemical name | CAS number | Reportable quantity | Threshold planning quantity | Threshold planning quantity, lower value | Threshold planning quantity, upper value |
|---|---|---|---|---|---|
| Phenol | 108-95-2 | 1000 | | 500 lbs | 10000 lbs |

SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|---|---|---|
| n-Hexane | 110-54-3 | 20 - 40 |
| Ethyl Benzene | 100-41-4 | 0.01 - 0.1 |
| Styrene | 100-42-5 | 0.01 - 0.1 |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

n-Hexane (CAS 110-54-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)
Dimethyl Ether (CAS 115-10-6)
Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA): Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

US state regulations

US. Massachusetts RTK - Substance List

2,2-Dimethylbutane (CAS 75-83-2)
2,3-Dimethylbutane (CAS 79-29-8)
2-Methylpentane (CAS 107-83-5)
3-Methylpentane (CAS 96-14-0)
Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Dimethyl Ether (CAS 115-10-6)
n-Hexane (CAS 110-54-3)
Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

2,2-Dimethylbutane (CAS 75-83-2)
2,3-Dimethylbutane (CAS 79-29-8)
2-Methylpentane (CAS 107-83-5)
Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Dimethyl Ether (CAS 115-10-6)
n-Hexane (CAS 110-54-3)
Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

2,2-Dimethylbutane (CAS 75-83-2)
2,3-Dimethylbutane (CAS 79-29-8)
2-Methylpentane (CAS 107-83-5)
3-Methylpentane (CAS 96-14-0)
Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Dimethyl Ether (CAS 115-10-6)
n-Hexane (CAS 110-54-3)
Propane (CAS 74-98-6)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Butane (CAS 106-97-8)
Dimethyl Ether (CAS 115-10-6)
n-Hexane (CAS 110-54-3)
Propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethyl Benzene (CAS 100-41-4) Listed: June 11, 2004

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

| | |
|---|---|
| Issue date | 11-20-2014 |
| Revision date | 11-20-2014 |
| Version # | 02 |
| Disclaimer | The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. |
| Revision Information | Product and Company Identification: Physical States<br>Physical & Chemical Properties: Multiple Properties<br>Transport Information: Material Transportation Information<br>Regulatory Information: United States<br>GHS: Classification |

# SAFETY DATA SHEET

## 1. Identification

| | |
|---|---|
| Product number | 0292 |
| Product identifier | **CAMIE 480 SCREEN OPENER** |
| Revision date | 04-09-2014 |
| Company information | Camie-Campbell, Inc.<br>1005 S. Westgate Drive<br>Addison, IL 60101 United States |
| Company phone | General Assistance 1-630-543-7600 |
| Emergency telephone US | 1-866-836-8855 |
| Emergency telephone outside US | 1-952-852-4646 |
| Version # | 02 |
| Supersedes date | 04-02-2014 |
| Recommended use | Not available. |
| Recommended restrictions | None known. |

## 2. Hazard(s) identification

| | | |
|---|---|---|
| Physical hazards | Flammable aerosols | Category 1 |
| Health hazards | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2A |
| | Carcinogenicity | Category 2 |
| | Reproductive toxicity | Category 1B |
| | Aspiration hazard | Category 1 |
| OSHA defined hazards | Not classified. | |

Label elements

| | |
|---|---|
| Signal word | Danger |
| Hazard statement | Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May damage fertility or the unborn child. |
| Prevention | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. |
| Storage | Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |

| | | |
|---|---|---|
| Hazard(s) not otherwise classified (HNOC) | Not classified. | |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 2 |
| | Hazardous to the aquatic environment, long-term hazard | Category 2 |

Supplemental information

| | |
|---|---|
| Hazard statement | Toxic to aquatic life. Toxic to aquatic life with long lasting effects. |

| | |
|---|---|
| Prevention | Avoid release to the environment. |
| Response | Collect spillage. |

## 3. Composition/information on ingredients

Mixtures

Hazardous components

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Solvent Naphtha (Petroleum), Light Aromatic | | 64742-95-6 | 20 - 40 |
| 1,2,3-Trimethylbenzene | | 95-63-6 | 10 - 20 |
| Butane | | 106-97-8 | 10 - 20 |
| Cyclohexanone | | 108-94-1 | 10 - 20 |
| Propane | | 74-98-6 | 10 - 20 |
| Xylenes | | 1330-20-7 | 1 - 2.5 |
| Cumene | | 98-82-8 | 0.1 - 1 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

| | |
|---|---|
| Inhalation | If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. |
| Skin contact | Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Ingestion | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis. |
| Most important symptoms/effects, acute and delayed | Irritation of eyes and mucous membranes. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse. |

## 5. Fire-fighting measures

| | |
|---|---|
| Suitable extinguishing media | Alcohol resistant foam. Water. Dry powder. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | Contents under pressure. Pressurized container may explode when exposed to heat or flame. |
| Special protective equipment and precautions for firefighters | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| Fire-fighting equipment/instructions | Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes. |

## 6. Accidental release measures

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS. |

| | |
|---|---|
| Methods and materials for containment and cleaning up | Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS. |
| Environmental precautions | Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. |

## 7. Handling and storage

| | |
|---|---|
| Precautions for safe handling | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Use only in well-ventilated areas. Use personal protective equipment as required. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Do not empty into drains. |
| Conditions for safe storage, including any incompatibilities | Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the MSDS). Level 2 Aerosol. |

## 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value |
|---|---|---|
| Cumene (CAS 98-82-8) | PEL | 245 mg/m3<br>50 ppm |
| Cyclohexanone (CAS 108-94-1) | PEL | 200 mg/m3<br>50 ppm |
| Propane (CAS 74-98-6) | PEL | 1800 mg/m3<br>1000 ppm |
| Xylenes (CAS 1330-20-7) | PEL | 435 mg/m3<br>100 ppm |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|---|---|---|
| Cumene (CAS 98-82-8) | TWA | 50 ppm |
| Cyclohexanone (CAS 108-94-1) | STEL | 50 ppm |
| | TWA | 20 ppm |
| Xylenes (CAS 1330-20-7) | STEL | 150 ppm |
| | TWA | 100 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|---|---|---|
| 1,2,3-Trimethylbenzene (CAS 95-63-6) | TWA | 125 mg/m3<br>25 ppm |
| Butane (CAS 106-97-8) | TWA | 1900 mg/m3<br>800 ppm |
| Cumene (CAS 98-82-8) | TWA | 245 mg/m3<br>50 ppm |
| Cyclohexanone (CAS 108-94-1) | TWA | 100 mg/m3<br>25 ppm |
| Propane (CAS 74-98-6) | TWA | 1800 mg/m3<br>1000 ppm |

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| Cyclohexanone (CAS 108-94-1) | 80 mg/l | 1,2-Cyclohexane diol, with hydrolysis | Urine | * |
| | 8 mg/l | Cyclohexanol, with hydrolysis | Urine | * |
| Xylenes (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

| | |
|---|---|
| Cumene (CAS 98-82-8) | Can be absorbed through the skin. |
| Cyclohexanone (CAS 108-94-1) | Can be absorbed through the skin. |

US - Minnesota Haz Subs: Skin designation applies

| | |
|---|---|
| Cumene (CAS 98-82-8) | Skin designation applies. |
| Cyclohexanone (CAS 108-94-1) | Skin designation applies. |

US - Tennesse OELs: Skin designation

| | |
|---|---|
| Cumene (CAS 98-82-8) | Can be absorbed through the skin. |
| Cyclohexanone (CAS 108-94-1) | Can be absorbed through the skin. |

US ACGIH Threshold Limit Values: Skin designation

| | |
|---|---|
| Cyclohexanone (CAS 108-94-1) | Can be absorbed through the skin. |

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

| | |
|---|---|
| Cumene (CAS 98-82-8) | Can be absorbed through the skin. |
| Cyclohexanone (CAS 108-94-1) | Can be absorbed through the skin. |

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| | |
|---|---|
| Cumene (CAS 98-82-8) | Can be absorbed through the skin. |

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear eye/face protection. Wear safety glasses with side shields (or goggles).

**Hand protection** Wear protective gloves.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

Appearance

**Color** Not available.

**Form** Aerosol.

**Physical state** Gas.

**Flash point** 34.63 °F (1.46 °C) estimated

**Melting point/freezing point** Not available.

**Odor** Not available.

**pH** Not available.

**Solubility(ies)** Not available.

**Vapor density** Not available.

**Vapor pressure** 16.63 psig @70F estimated

**Viscosity** Not available.

Other information

**Specific gravity** 0.509 estimated

## 10. Stability and reactivity

| | |
|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Avoid temperatures exceeding the flash point. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

## 11. Toxicological information

Information on likely routes of exposure

| | |
|---|---|
| Ingestion | May be fatal if swallowed and enters airways. |
| Inhalation | May be fatal if swallowed and enters airways. Prolonged inhalation may be harmful. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes serious eye irritation. |
| Symptoms related to the physical, chemical and toxicological characteristics | Irritant effects. |

Information on toxicological effects

Acute toxicity: May be fatal if swallowed and enters airways.

| Product | Species | Test Results |
|---|---|---|
| CAMIE 480 SCREEN OPENER (CAS Mixture) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 18713.2832 mg/kg, estimated |
| | Rat | 4296.0015 mg/kg, estimated |
| Inhalation | | |
| LC50 | Mouse | 2091.8926 mg/l, 2 Hours, estimated |
| | Rat | 12563.8662 mg/l, 15 Minutes, estimated |
| | | 11843.8506 mg/l, 48 Hours, estimated |
| | | 3981.6289 mg/l, 4 Hours, estimated |
| | | 15.0629 mg/l/4h, estimated |
| Oral | | |
| LD50 | Rat | 35.5316 g/kg, estimated |

| Components | Species | Test Results |
|---|---|---|
| 1,2,3-Trimethylbenzene (CAS 95-63-6) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 3160 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 2000 mg/l, 48 Hours |
| Oral | | |
| LD50 | Rat | 6 g/kg |
| Butane (CAS 106-97-8) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Mouse | 680 mg/l, 2 Hours |
| | Rat | 658 mg/l, 4 Hours |
| Cumene (CAS 98-82-8) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Mouse | 2000 mg/l, 7 Hours |
| | | 24.7 mg/l, 2 Hours |
| | Rat | 8000 mg/l, 4 Hours |

| Components | Species | Test Results |
|---|---|---|
| Oral | | |
| LD50 | Rat | 1400 mg/kg |
| Propane (CAS 74-98-6) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | > 1442.847 mg/l, 15 Minutes |
| | | 658 mg/l/4h |
| Xylenes (CAS 1330-20-7) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 43 g/kg |
| Inhalation | | |
| LC50 | Mouse | 3907 mg/l, 6 Hours |
| | Rat | 6350 mg/l, 4 Hours |
| LCL0 | Rat | 8000 mg/l, 4 Hours |
| Oral | | |
| LD50 | Mouse | 1590 mg/kg |
| | Rat | 3523 - 8600 mg/kg |

* Estimates for product may be based on additional component data not shown.

| | |
|---|---|
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/eye irritation | Causes serious eye irritation. |
| Respiratory sensitization | Not available. |
| Skin sensitization | This product is not expected to cause skin sensitization. |
| Germ cell mutagenicity | Not applicable. |
| Carcinogenicity | Suspected of causing cancer. |

IARC Monographs. Overall Evaluation of Carcinogenicity

| | |
|---|---|
| Cumene (CAS 98-82-8) | 2B Possibly carcinogenic to humans. |
| Cyclohexanone (CAS 108-94-1) | 3 Not classifiable as to carcinogenicity to humans. |
| Xylenes (CAS 1330-20-7) | 3 Not classifiable as to carcinogenicity to humans. |

| | |
|---|---|
| Reproductive toxicity | Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. May damage fertility or the unborn child. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | May be fatal if swallowed and enters airways. |
| Chronic effects | Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. |

## 12. Ecological information

Ecotoxicity — Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

| Product | | Species | Test Results |
|---|---|---|---|
| CAMIE 480 SCREEN OPENER (CAS Mixture) | | | |
| Algae | IC50 | Algae | 517.3394 mg/L, 72 Hours, estimated |
| Crustacea | EC50 | Daphnia | 10.7779 mg/L, 48 Hours, estimated |
| Fish | LC50 | Fish | 16.3407 mg/L, 96 Hours, estimated |

| Components | | Species | Test Results |
|---|---|---|---|
| 1,2,3-Trimethylbenzene (CAS 95-63-6) | | | |
| Crustacea | EC50 | Daphnia | 6.14 mg/L, 48 Hours |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 7.19 - 8.28 mg/l, 96 hours |
| Cumene (CAS 98-82-8) | | | |
| Algae | IC50 | Algae | 2.6 mg/L, 72 Hours |

| Components | | Species | Test Results |
|---|---|---|---|
| Crustacea | EC50 | Daphnia | 0.6 mg/L, 48 Hours |
| Aquatic | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.7 mg/l, 96 hours |
| Cyclohexanone (CAS 108-94-1) | | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 481 - 578 mg/l, 96 hours |
| Solvent Naphtha (Petroleum), Light Aromatic (CAS 64742-95-6) | | | |
| Crustacea | EC50 | Daphnia | 6.14 mg/L, 48 Hours |
| Xylenes (CAS 1330-20-7) | | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 7.711 - 9.591 mg/l, 96 hours |

* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

Partition coefficient n-octanol / water (log Kow)

| | |
|---|---|
| Cyclohexanone | 0.81 |
| Propane | 2.36 |
| Butane | 2.89 |
| Xylenes | 3.12 - 3.2 |
| Cumene | 3.66 |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste U List: Reference

| | |
|---|---|
| Cumene (CAS 98-82-8) | U055 |
| Cyclohexanone (CAS 108-94-1) | U057 |
| Xylenes (CAS 1330-20-7) | U239 |

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

DOT

| | |
|---|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, flammable |
| Transport hazard class(es) | 2.1 |
| Subsidiary class(es) | Not available. |
| Packing group | Not available. |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Labels required | None |
| Special provisions | N82 |
| Packaging exceptions | 306 |
| Packaging non bulk | None |
| Packaging bulk | None |

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

| | |
|---|---|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, flammable |
| Transport hazard class(es) | 2.1 |
| Subsidiary class(es) | - |
| Packaging group | Not available. |
| Environmental hazards | Yes |
| Labels required | 2.1 |
| ERG Code | 10L |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Packaging Exceptions | LTD QTY |

IMDG

| | |
|---|---|
| UN number | UN1950 |
| UN proper shipping name | AEROSOLS, MARINE POLLUTANT |
| Transport hazard class(es) | 2.1 |
| Subsidiary class(es) | - |
| Packaging group | Not available. |
| Environmental hazards | |
| Marine pollutant | Yes |
| Labels required | None |
| EmS | F-D, S-U |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Packaging Exceptions | LTD QTY |

| | |
|---|---|
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. |

DOT


IATA; IMDG


Marine pollutant

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

| | |
|---|---|
| Cumene (CAS 98-82-8) | LISTED |
| Cyclohexanone (CAS 108-94-1) | LISTED |
| Xylenes (CAS 1330-20-7) | LISTED |

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| | |
|---|---|
| Hazard categories | Immediate Hazard - Yes<br>Delayed Hazard - Yes<br>Fire Hazard - Yes<br>Pressure Hazard - Yes<br>Reactivity Hazard - No |
| SARA 302 Extremely hazardous substance | No |
| SARA 311/312 Hazardous chemical | No |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Cumene (CAS 98-82-8)
Xylenes (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

| | |
|---|---|
| Safe Drinking Water Act (SDWA) | Not regulated. |

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

| | |
|---|---|
| Food and Drug Administration (FDA) | Not regulated. |

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

| | |
|---|---|
| 1,2,3-Trimethylbenzene (CAS 95-63-6) | 500 lbs |
| Butane (CAS 106-97-8) | 500 lbs |
| Cumene (CAS 98-82-8) | 500 lbs |
| Propane (CAS 74-98-6) | 500 lbs |
| Xylenes (CAS 1330-20-7) | 500 lbs |

US. Pennsylvania RTK - Hazardous Substances

1,2,3-Trimethylbenzene (CAS 95-63-6)
Butane (CAS 106-97-8)
Cumene (CAS 98-82-8)
Cyclohexanone (CAS 108-94-1)
Propane (CAS 74-98-6)
Xylenes (CAS 1330-20-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

| | |
|---|---|
| Issue date | 04-02-2014 |
| Revision date | 04-09-2014 |
| Version # | 02 |
| Further information | Not available. |
| Disclaimer | The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. |
| Revision Information | Product and Company Identification: Alternate Trade Names |

# MATERIAL SAFETY DATA SHEET

**2/14/2012**

MANUFACTURER OR DISTRIBUTOR: **Speedball Art Products Co.**
**P.O. Box 5157**
**2301 Speedball Road**
**Statesville, North Carolina 28677**

INFORMATION TELEPHONE NUMBER: **704-978-4166**
EMERGENCY TELEPHONE NUMBER: **1-800-898-7224**

## SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **SPEEDBALL SUPER BLACK INDIA INK**
PRODUCT NUMBER: **3338**
PRODUCT SIZES: **1 LOZ., 2 LOZ., 16 LOZ., & 32 LOZ.**
BRAND NAME: **SPEEDBALL SUPER BLACK INDIA INK**
PRODUCT CLASS: **WATERPROOF DRAWING INK**

## SECTION II - HAZARDOUS INGREDIENTS

| Ingredient | CAS # | PEL/TLV (MG/M#) | Max % Weight | NTP | IARC |
|---|---|---|---|---|---|

None

## SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
MELTING POINT: N/A
VAPOR PRESSURE: N/A
SPECIFIC VAPOR DENSITY (AIR=1): N/A
SPECIFIC GRAVITY: N/A
SOLUBILITY IN WATER: N/A
REACTIVITY IN WATER: NON-REACTIVE
APPEARANCE AND ODOR:

## SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT (METHOD): N/A
AUTOIGNITION TEMPERATURE: N/A
EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE
EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED
FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED
UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE

## SECTION V - PHYSICAL HAZARDS/REACTIVITY

HAZARDOUS POLYMERIZATION PRODUCTS: NONE
STABILITY: STABLE CONDITIONS TO AVOID: NONE
INCOMPATIBILITY (MATERIALS TO AVOID): NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

## SECTION VI - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: SEE SECTION II FOR COMPONENT PEL/TLVs
PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, EYE, SKIN

COMPANY: **Speedball Art Products Co.** 2/14/2012
PRODUCT: **3338**
BRAND NAME: **SPEEDBALL SUPER BLACK INDIA INK**

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: **CONTACT MAY RESULT IN IRRITATION OF THE SKIN. CONTACT MAY RESULT IN REDNESS OR PAIN OF THE EYES.**

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: **EXPOSURE MAY CAUSE ITCHINESS OF THE SKIN WITH HIVES OR ECZEMA. CHRONIC EXPOSURE MAY RESULT IN DIFFICULTY WITH REPRODUCTION (CHILD BEARING).**

CARCINOGEN LISTING: NTP: **NO** IARC: **NO**OSHA: **NO**

SEE SECTION II FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: PREGNANCY.

FIRST AID MEASURES: NONE REQUIRED. NO ACUTE HEALTH EFFECTS EXPECTED.

## SECTION VII - SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: NO SPECIAL PRECAUTIONS REQUIRED.

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: NO SPECIAL SPILL PROCEDURES REQUIRED.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

## SECTION VIII - PROTECTIVE EQUIPMENT/CONTROL MEASURES

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: NONE REQUIRED

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED

WORK/HYGIENE PRACTICES: NONE REQUIRED

## SECTION IX - ADDITIONAL INFORMATION AND WARNINGS

THIS INFORMATION SHEET IS FOR CONSUMER USE ONLY.
ADDITIONAL INFORMATION AND WARNINGS: NONE REQUIRED

COMPANY: **Speedball Art Products Co.** 2/14/2012
PRODUCT: **3338**
BRAND NAME: **SPEEDBALL SUPER BLACK INDIA INK**

**Woodhall Stopford, MD, MSPH** **2/14/2012**

02916-1109

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: MS-CS11240
PRODUCT NAME: PAPER MOD PODGE MATTE

PLAID ENTERPRISES, INC.
3225 WESTECH DRIVE
NORCROSS, GA 30092

PHONE: 678-291-8100 CHEMTREC 24-HOUR PHONE: 800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT/EXPOSURE LIMITS | CAS# | % BY WT. |
|---|---|---|
| * RESIDUAL VINYL ACETATE<br>OSHA PEL: 10 PPM, ACGIH TLV: 10 PPM | 108-05-4 | .5 |

## 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE: Direct contact with material may cause slight irritation.

SKIN: Prolonged or repeated contact may cause slight skin irritation.

INGESTION: Not an anticipated route of exposure. Small amounts are not anticipated to be harmful.

INHALATION: Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat, and respiratory tract.

CHRONIC (CANCER) INFORMATION: Vinyl acetate is listed as a potential carcinogen by IARC. Overexposure to vinyl acetate is not expected to occur during normal handling and use of this product.

TERATOLOGY (BIRTH DEFECT) INFORMATION: Product does not contain chemicals at levels known to cause birth defects.

REPRODUCTION INFORMATION: No Data.

## 4. FIRST AID MEASURES

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

EYES: Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

SKIN: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

INGESTION: Small amounts are not anticipated to be harmful. Give 2 glasses of water to drink.

INHALATION: Remove to fresh air. Get medical attention if breathing is difficult.

NOTE TO PHYSICIANS: Please contact your local poison control center for information regarding this product.

## 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: Non Flammable METHOD: Not Determined

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: Not Determined
UPPER FLAMMABLE LIMIT: Not Determined

AUTOIGNITION TEMPERATURE: Not Applicable.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may form carbon dioxide, carbon monoxide, and various hydrocarbons.

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire, water spray, foam, carbon dioxide, or dry chemical.

FIREFIGHTING INSTRUCTIONS: Use water spray to cool containers not actively involved in fire. Self-contained breathing apparatus recommended for fire fighters.

## 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Keep unnecessary personnel away, dike and contain spill with inert material such as sand or earth. Transfer material into a container for proper disposal. Keep spill out of sewers and open bodies of water. Floors may become slippery.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

LARGE SPILL: Floor may be slippery, use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Caution: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

HANDLING: Avoid employee exposure through the use of appropriate engineering controls, adequate personal protective equipment, and good industrial hygiene practices. Wash thoroughly after handling. Handle in well-ventilated workspace.

STORAGE: Store in a moderate cool, dry, well ventilated area away from direct sources of heat. Avoid freezing (32F). Position containers so that any labeling information is visible. Keep containers closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: The use of local exhaust ventilation is recommended to control emissions near the source. Additional engineering controls should be used as necessary.

RESPIRATORY PROTECTION: Respiratory protection is generally not required. A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Impervious clothing should be worn when gross contact is likely, such as when cleaning up large spills. Neoprene gloves may provide protection against permeation.

EYE PROTECTION: Use safety glasses with side shields (ANSI Z87.1 or approved equivalent).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212 Deg. F
MELTING POINT: Not determined.
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined.
SOLUBILITY IN WATER: 100% Soluble or dispersible.
SPECIFIC GRAVITY: 1.06
PH: 4.5 to 5.0
ODOR: Mild, sweet.
APPEARANCE: Blue white.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

COATING VOC: .2 lb/gl
MATERIAL VOC: .09 lb/gl

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): This material is considered stable.

INCOMPATIBILITY: Not established

HAZARDOUS DECOMPOSITION PRODUCTS: Not established

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

## 11. TOXICOLOGICAL INFORMATION

As packaged for consumers, this product is certified in a toxicological evaluation by a medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans, including children, or to cause acute or chronic health problems.

## 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No applicable data.

CHEMICAL FATE INFORMATION: Appreciable evaporation from water to air is expected in the environment. No appreciable bioconcentration is expected in the environment.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local, State, and Federal waste disposal regulations.

## 14. TRANSPORT INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE

US DOT Hazard Class.....Nonregulated

## 15. REGULATORY INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED

U.S. FEDERAL REGULATIONS: The components of this product are included on the TSCA inventory.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

OSHA: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200)

CERCLA: SARA HAZARD CATEGORY: Release of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

SECTION 313: * Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: This product is not a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All components of this product are on the Domestic Substances List (DSL), and acceptable for use under the provisions of CEPA.

EINECS: All the components of this product are on the European Inventory of Existing Commercial Chemical Substances.

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS: The Volatile Organic Compounds (VOCs) are below the emission limits as regulated by The Environmental Protection Agency (EPA) and state regulations.

16. OTHER INFORMATION

NAME OF PREPARER: Dewey Wright

REVISION DATE: 02/12/04

HMIS CODES: H F R P
1 0 0 A

HMIS HAZARD RATINGS: H=HEALTH, F=FIRE, R=REACTIVITY, P=PERSONAL

SCALE: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

## MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

PERSONAL PROTECTION: See Section 8, Exposure Controls/Personal Protection for recommended handling of material as supplied; check with supervisor for your actual use condition.
HMIS is a registered trademark of the National Paint and Coatings Association.

LIST OF ACRONYMS:
ACGIH: American Conference of Government Industrial Hygienists
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PPM: Parts Per Million
SARA: Superfund Amendment Reauthorization Act
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Please note that this MSDS applies to industrial handling of this material. Consumers should read product label. The information and recommendations set forth herein are believed to be accurate, The data is derived from information provided to Plaid Enterprises, Inc. from its raw material suppliers. Plaid Enterprises, Inc. makes no guarantee or warranty, expressed or implied, regarding the accuracy, reliability, or completeness of the data or the results to be obtained from the use thereof. It is the responsibility of the user of the product to comply with all applicable federal, state, and local laws and regulations.

02916-1005

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: MS-CS11209, 11, 17
PRODUCT NAME: MOD PODGE SPARKLE

PLAID ENTERPRISES, INC.
3225 WESTECH DRIVE
NORCROSS, GA 30092

PHONE: 678-291-8100 CHEMTREC 24 HOUR PHONE: 800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT/EXPOSURE LIMITS | CAS# | % BY WT. |
|---|---|---|
| * RESIDUAL VINYL ACETATE<br>OSHA PEL: 10 PPM, ACGIH TLV: 10 PPM | 108-05-4 | .5 |

## 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE: Direct contact with material may cause slight irritation.

SKIN: Prolonged or repeated contact may cause slight skin irritation.

INGESTION: Not an anticipated route of exposure. Small amounts are not anticipated to be harmful.

INHALATION: Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat, and respiratory tract.

CHRONIC (CANCER) INFORMATION: Vinyl acetate is listed as a potential carcinogen by IARC. Overexposure to vinyl acetate is not expected to occur during normal handling and use of this product.

TERATOLOGY (BIRTH DEFECT) INFORMATION: Product does not contain chemicals at levels known to cause birth defects.

REPRODUCTION INFORMATION: No Data.

## 4. FIRST AID MEASURES

## MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

EYES: Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

SKIN: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

INGESTION: Small amounts are not anticipated to be harmful. Give 2 glasses of water to drink.

INHALATION: Remove to fresh air. Get medical attention if breathing is difficult.

NOTE TO PHYSICIANS: Please contact your local poison control center for information regarding this product.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: Non Flammable METHOD: Not Determined

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: Not Determined
UPPER FLAMMABLE LIMIT: Not Determined

AUTOIGNITION TEMPERATURE: Not Applicable.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may form carbon dioxide, carbon monoxide, and various hydrocarbons.

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire, water spray, foam, carbon dioxide, or dry chemical.

FIREFIGHTING INSTRUCTIONS: Use water spray to cool containers not actively involved in fire. Self-contained breathing apparatus recommended for fire fighters.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Keep unnecessary personnel away, dike and contain spill with inert material such as sand or earth. Transfer material into a container for proper disposal. Keep spill out of sewers and open bodies of water. Floors may become slippery.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

LARGE SPILL: Floor may be slippery, use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Caution: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

HANDLING: Avoid employee exposure through the use of appropriate engineering controls. adequate personal protective equipment, and good industrial hygiene practices. Wash thoroughly after handling. Handle in well-ventilated workspace.

STORAGE: Store in a moderate cool, dry, well ventilated area away from direct sources of heat. Avoid freezing (32F). Position containers so that any labeling information is visible. Keep containers closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: The use of local exhaust ventilation is recommended to control emissions near the source. Additional engineering controls should be used as necessary.

RESPIRATORY PROTECTION: Respiratory protection is generally not required. A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Impervious clothing should be worn when gross contact is likely, such as when cleaning up large spills. Neoprene gloves may provide protection against permeation.

EYE PROTECTION: Use safety glasses with side shields (ANSI Z87.1 or approved equivalent).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212 Deg. F
MELTING POINT: Not determined.
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined.
SOLUBILITY IN WATER: 100% Soluble or dispersible.
SPECIFIC GRAVITY: 1.07
PH: 4.5 to 5.0
ODOR: Mild, sweet.
APPEARANCE: Blue white.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

COATING VOC: . lb/gl
MATERIAL VOC: . lb/gl

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): This material is considered stable.

INCOMPATIBILITY: Not established

HAZARDOUS DECOMPOSITION PRODUCTS: Not established

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

## 11. TOXICOLOGICAL INFORMATION

As packaged for consumers, this product is certified in a toxicological evaluation by a medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans, including children, or to cause acute or chronic health problems.

## 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No applicable data.

CHEMICAL FATE INFORMATION: Appreciable evaporation from water to air is expected in the environment. No appreciable bioconcentration is expected in the environment.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local, State, and Federal waste disposal regulations.

## 14. TRANSPORT INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE

US DOT Hazard Class.....Nonregulated

## 15. REGULATORY INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED

U.S. FEDERAL REGULATIONS: The components of this product are included on the TSCA inventory.

## MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

OSHA: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200)

CERCLA: SARA HAZARD CATEGORY: Release of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

SECTION 313: * Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: This product is not a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All components of this product are on the Domestic Substances List (DSL), and acceptable for use under the provisions of CEPA.

EINECS: All the components of this product are on the European Inventory of Existing Commercial Chemical Substances.

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS: The Volatile Organic Compounds (VOCs) are below the emission limits as regulated by The Environmental Protection Agency (EPA) and state regulations.

16. OTHER INFORMATION

NAME OF PREPARER: Dewey Wright

REVISION DATE: 01/14/03

HMIS CODES: H F R P
1 0 0 A

HMIS HAZARD RATINGS: H=HEALTH, F=FIRE, R=REACTIVITY, P=PERSONAL

SCALE: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

## MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

PERSONAL PROTECTION: See Section 8, Exposure Controls/Personal Protection for recommended handling of material as supplied; check with supervisor for your actual use condition.

HMIS is a registered trademark of the National Paint and Coatings Association.

LIST OF ACRONYMS:
ACGIH: American Conference of Government Industrial Hygienists
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PPM: Parts Per Million
SARA: Superfund Amendment Reauthorization Act
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Please note that this MSDS applies to industrial handling of this material. Consumers should read product label. The information and recommendations set forth herein are believed to be accurate, The data is derived from information provided to Plaid Enterprises, Inc. from its raw material suppliers. Plaid Enterprises, Inc. makes no guarantee or warranty, expressed or implied, regarding the accuracy, reliability, or completeness of the data or the results to be obtained from the use thereof. It is the responsibility of the user of the product to comply with all applicable federal, state, and local laws and regulations.

# MATERIAL SAFETY DATA SHEET

**Date Printed:** 10/05/11

02916-1004, 1015, 1016, 1017, 1019

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: MS-11300'S
PRODUCT NAME: MOD PODGE MATTE SERIES

PLAID ENTERPRISES, INC.
3225 WESTECH DRIVE
NORCROSS, GA 30092

PHONE: 678-291-8100 CHEMTREC 24-HOUR PHONE: 800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT/EXPOSURE LIMITS | CAS# | % BY WT. |
|---|---|---|
| * RESIDUAL VINYL ACETATE<br>OSHA PEL: 10 PPM, ACGIH TLV: 10 PPM | 108-05-4 | .5 |

## 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE: Direct contact with material may cause slight irritation.

SKIN: Prolonged or repeated contact may cause slight skin irritation.

INGESTION: Not an anticipated route of exposure. Small amounts are not anticipated to be harmful.

INHALATION: Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat, and respiratory tract.

CHRONIC (CANCER) INFORMATION: Vinyl acetate is listed as a potential carcinogen by IARC. Overexposure to vinyl acetate is not expected to occur during normal handling and use of this product.

TERATOLOGY (BIRTH DEFECT) INFORMATION: Product does not contain chemicals at levels known to cause birth defects.

REPRODUCTION INFORMATION: No Data.

## 4. FIRST AID MEASURES

## MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

EYES: Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

SKIN: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

INGESTION: Small amounts are not anticipated to be harmful. Give 2 glasses of water to drink.

INHALATION: Remove to fresh air. Get medical attention if breathing is difficult.

NOTE TO PHYSICIANS: Please contact your local poison control center for information regarding this product.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: Non Flammable METHOD: Not Determined

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: Not Determined
UPPER FLAMMABLE LIMIT: Not Determined

AUTOIGNITION TEMPERATURE: Not Applicable.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may form carbon dioxide, carbon monoxide, and various hydrocarbons.

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire, water spray, foam, carbon dioxide, or dry chemical.

FIREFIGHTING INSTRUCTIONS: Use water spray to cool containers not actively involved in fire. Self-contained breathing apparatus recommended for fire fighters.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Keep unnecessary personnel away, dike and contain spill with inert material such as sand or earth. Transfer material into a container for proper disposal. Keep spill out of sewers and open bodies of water. Floors may become slippery.

# MATERIAL SAFETY DATA SHEET

Date.Printed: 10/05/11

LARGE SPILL: Floor may be slippery, use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Caution: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

HANDLING: Avoid employee exposure through the use of appropriate engineering controls, adequate personal protective equipment, and good industrial hygiene practices. Wash thoroughly after handling. Handle in well-ventilated workspace.

STORAGE: Store in a moderate cool, dry, well ventilated area away from direct sources of heat. Avoid freezing (32F). Position containers so that any labeling information is visible. Keep containers closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: The use of local exhaust ventilation is recommended to control emissions near the source. Additional engineering controls should be used as necessary.

RESPIRATORY PROTECTION: Respiratory protection is generally not required. A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Impervious clothing should be worn when gross contact is likely, such as when cleaning up large spills. Neoprene gloves may provide protection against permeation.

EYE PROTECTION: Use safety glasses with side shields (ANSI Z87.1 or approved equivalent).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212 Deg. F
MELTING POINT: Not determined.
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined.
SOLUBILITY IN WATER: 100% Soluble or dispersible.
SPECIFIC GRAVITY: 1.06
PH: 4.5 to 5.0
ODOR: Mild, sweet.
APPEARANCE: Blue white.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

COATING VOC: .2 lb/gl
MATERIAL VOC: .09 lb/gl

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): This material is considered stable.

INCOMPATIBILITY: Not established

HAZARDOUS DECOMPOSITION PRODUCTS: Not established

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

## 11. TOXICOLOGICAL INFORMATION

As packaged for consumers, this product is certified in a toxicological evaluation by a medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans, including children, or to cause acute or chronic health problems.

## 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No applicable data.

CHEMICAL FATE INFORMATION: Appreciable evaporation from water to air is expected in the environment. No appreciable bioconcentration is expected in the environment.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local, State, and Federal waste disposal regulations.

## 14. TRANSPORT INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE

US DOT Hazard Class.....Nonregulated

## 15. REGULATORY INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED

U.S. FEDERAL REGULATIONS: The components of this product are included on the TSCA inventory.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

OSHA: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200)

CERCLA: SARA HAZARD CATEGORY: Release of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

SECTION 313: * Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: This product is not a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All components of this product are on the Domestic Substances List (DSL), and acceptable for use under the provisions of CEPA.

EINECS: All the components of this product are on the European Inventory of Existing Commercial Chemical Substances.

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS: The Volatile Organic Compounds (VOCs) are below the emission limits as regulated by The Environmental Protection Agency (EPA) and state regulations.

16. OTHER INFORMATION

NAME OF PREPARER: Jim Stanley

REVISION DATE: 03/17/08

HMIS CODES: H F R P
1 0 0 A

HMIS HAZARD RATINGS: H=HEALTH, F=FIRE, R=REACTIVITY, P=PERSONAL

SCALE: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

## MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

PERSONAL PROTECTION: See Section 8, Exposure Controls/Personal Protection for recommended handling of material as supplied; check with supervisor for your actual use condition.
HMIS is a registered trademark of the National Paint and Coatings Association.

LIST OF ACRONYMS:
ACGIH: American Conference of Government Industrial Hygienists
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PPM: Parts Per Million
SARA: Superfund Amendment Reauthorization Act
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Please note that this MSDS applies to industrial handling of this material. Consumers should read product label. The information and recommendations set forth herein are believed to be accurate, The data is derived from information provided to Plaid Enterprises, Inc. from its raw material suppliers. Plaid Enterprises, Inc. makes no guarantee or warranty, expressed or implied, regarding the accuracy, reliability, or completeness of the data or the results to be obtained from the use thereof. It is the responsibility of the user of the product to comply with all applicable federal, state, and local laws and regulations.

02916-1007, 1009, 1104, 1108

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: MS-11200'S
PRODUCT NAME: MOD PODGE GLOSS SERIES

PLAID ENTERPRISES, INC.
3225 WESTECH DRIVE
NORCROSS, GA 30092

PHONE: 678-291-8100 CHEMTREC 24-HOUR PHONE: 800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT/EXPOSURE LIMITS | CAS# | % BY WT. |
|---|---|---|
| * RESIDUAL VINYL ACETATE<br>OSHA PEL: 10 PPM, ACGIH TLV: 10 PPM | 108-05-4 | .5 |

## 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE: Direct contact with material may cause slight irritation.

SKIN: Prolonged or repeated contact may cause slight skin irritation.

INGESTION: Not an anticipated route of exposure. Small amounts are not anticipated to be harmful.

INHALATION: Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat, and respiratory tract.

CHRONIC (CANCER) INFORMATION: Vinyl acetate is listed as a potential carcinogen by IARC. Overexposure to vinyl acetate is not expected to occur during normal handling and use of this product.

TERATOLOGY (BIRTH DEFECT) INFORMATION: Product does not contain chemicals at levels known to cause birth defects.

REPRODUCTION INFORMATION: No Data.

## 4. FIRST AID MEASURES

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

EYES: Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

SKIN: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

INGESTION: Small amounts are not anticipated to be harmful. Give 2 glasses of water to drink.

INHALATION: Remove to fresh air. Get medical attention if breathing is difficult.

NOTE TO PHYSICIANS: Please contact your local poison control center for information regarding this product.

## 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: Non Flammable METHOD: Not Determined

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: Not Determined
UPPER FLAMMABLE LIMIT: Not Determined

AUTOIGNITION TEMPERATURE: Not Applicable.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may form carbon dioxide, carbon monoxide, and various hydrocarbons.

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire, water spray, foam, carbon dioxide, or dry chemical.

FIREFIGHTING INSTRUCTIONS: Use water spray to cool containers not actively involved in fire. Self-contained breathing apparatus recommended for fire fighters.

## 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Keep unnecessary personnel away, dike and contain spill with inert material such as sand or earth. Transfer material into a container for proper disposal. Keep spill out of sewers and open bodies of water. Floors may become slippery.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

LARGE SPILL: Floor may be slippery, use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Caution: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

HANDLING: Avoid employee exposure through the use of appropriate engineering controls, adequate personal protective equipment, and good industrial hygiene practices. Wash thoroughly after handling. Handle in well-ventilated workspace.

STORAGE: Store in a moderate cool, dry, well ventilated area away from direct sources of heat. Avoid freezing (32F). Position containers so that any labeling information is visible. Keep containers closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: The use of local exhaust ventilation is recommended to control emissions near the source. Additional engineering controls should be used as necessary.

RESPIRATORY PROTECTION: Respiratory protection is generally not required. A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Impervious clothing should be worn when gross contact is likely, such as when cleaning up large spills. Neoprene gloves may provide protection against permeation.

EYE PROTECTION: Use safety glasses with side shields (ANSI Z87.1 or approved equivalent).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212 Deg. F
MELTING POINT: Not determined.
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined.
SOLUBILITY IN WATER: 100% Soluble or dispersible.
SPECIFIC GRAVITY: 1.06
PH: 4.5 to 5.0
ODOR: Mild, sweet.
APPEARANCE: Blue white.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

COATING VOC: .2 lb/gl
MATERIAL VOC: .09 lb/gl

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): This material is considered stable.

INCOMPATIBILITY: Not established

HAZARDOUS DECOMPOSITION PRODUCTS: Not established

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

## 11. TOXICOLOGICAL INFORMATION

As packaged for consumers, this product is certified in a toxicological evaluation by a medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans, including children, or to cause acute or chronic health problems.

## 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No applicable data.

CHEMICAL FATE INFORMATION: Appreciable evaporation from water to air is expected in the environment. No appreciable bioconcentration is expected in the environment.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local, State, and Federal waste disposal regulations.

## 14. TRANSPORT INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE

US DOT Hazard Class.....Nonregulated

## 15. REGULATORY INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED

U.S. FEDERAL REGULATIONS: The components of this product are included on the TSCA inventory.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

OSHA: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200)

CERCLA: SARA HAZARD CATEGORY: Release of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

SECTION 313: * Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: This product is not a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All components of this product are on the Domestic Substances List (DSL), and acceptable for use under the provisions of CEPA.

EINECS: All the components of this product are on the European Inventory of Existing Commercial Chemical Substances.

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS: The Volatile Organic Compounds (VOCs) are below the emission limits as regulated by The Environmental Protection Agency (EPA) and state regulations.

16. OTHER INFORMATION

NAME OF PREPARER: Jim Stanley

REVISION DATE: 03/20/08

HMIS CODES: H F R P
1 0 0 A

HMIS HAZARD RATINGS: H=HEALTH, F=FIRE, R=REACTIVITY, P=PERSONAL

SCALE: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

PERSONAL PROTECTION: See Section 8, Exposure Controls/Personal Protection for recommended handling of material as supplied; check with supervisor for your actual use condition.
HMIS is a registered trademark of the National Paint and Coatings Association.

LIST OF ACRONYMS:
ACGIH: American Conference of Government Industrial Hygienists
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PPM: Parts Per Million
SARA: Superfund Amendment Reauthorization Act
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Please note that this MSDS applies to industrial handling of this material. Consumers should read product label. The information and recommendations set forth herein are believed to be accurate, The data is derived from information provided to Plaid Enterprises, Inc. from its raw material suppliers. Plaid Enterprises, Inc. makes no guarantee or warranty, expressed or implied, regarding the accuracy, reliability, or completeness of the data or the results to be obtained from the use thereof. It is the responsibility of the user of the product to comply with all applicable federal, state, and local laws and regulations.

02916-1008

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: MS-CS11219 & 20
PRODUCT NAME: MOD PODGE OUTDOOR

PLAID ENTERPRISES, INC.
3225 WESTECH DRIVE
NORCROSS, GA 30092

PHONE: 678-291-8100 CHEMTREC 24 HOUR PHONE: 800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT/EXPOSURE LIMITS | CAS# | % BY WT. |
|---|---|---|

*****No reportable quantities of hazardous materials are present.

## 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE: Direct contact with material may cause slight irritation.

SKIN: Prolonged or repeated contact may cause slight skin irritation.

INGESTION: Not an anticipated route of exposure. Small amounts are not anticipated to be harmful.

INHALATION: Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat, and respiratory tract.

CHRONIC (CANCER) INFORMATION: Vinyl acetate is listed as a potential carcinogen by IARC. Overexposure to vinyl acetate is not expected to occur during normal handling and use of this product.

TERATOLOGY (BIRTH DEFECT) INFORMATION: Product does not contain chemicals at levels known to cause birth defects.

REPRODUCTION INFORMATION: No Data.

## 4. FIRST AID MEASURES

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

EYES: Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

SKIN: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

INGESTION: Small amounts are not anticipated to be harmful. Give 2 glasses of water to drink.

INHALATION: Remove to fresh air. Get medical attention if breathing is difficult.

NOTE TO PHYSICIANS: Please contact your local poison control center for information regarding this product.

## 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: Not Determined METHOD: Not Determined

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: Not Determined
UPPER FLAMMABLE LIMIT: Not Determined

AUTOIGNITION TEMPERATURE: Not Applicable.

HAZARDOUS COMBUSTION PRODUCTS: Not Applicable

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire, water spray, foam, carbon dioxide, or dry chemical.

FIREFIGHTING INSTRUCTIONS: Use water spray to cool containers not actively involved in fire. Self-contained breathing apparatus recommended for fire fighters.

## 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb spill with inert material.

LARGE SPILL: Floor may be slippery, use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Caution: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

## 7. HANDLING AND STORAGE

HANDLING: Avoid employee exposure through the use of appropriate engineering controls, adequate personal protective equipment, and good industrial hygiene practices. Wash thoroughly after handling. Handle in well-ventilated workspace.

STORAGE: Store in a moderate cool, dry, well ventilated area away from direct sources of heat. Avoid freezing (32F). Position containers so that any labeling information is visible. Keep containers closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: The use of local exhaust ventilation is recommended to control emissions near the source. Additional engineering controls should be used as necessary.

RESPIRATORY PROTECTION: Respiratory protection is generally not required. A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Impervious clothing should be worn when gross contact is likely, such as when cleaning up large spills. Neoprene gloves may provide protection against permeation.

EYE PROTECTION: Use safety glasses with side shields (ANSI Z87.1 or approved equivalent).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 212 Deg. F
MELTING POINT: Not determined.
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined.
SOLUBILITY IN WATER: 100% Soluble or dispersible.
SPECIFIC GRAVITY: 1.06
PH: 8.5 to 9.5
ODOR: Acrylic odor
APPEARANCE: Milky
COATING VOC: .43 lb/gl
MATERIAL VOC: .22 lb/gl

## 10. STABILITY AND REACTIVITY

## MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

CHEMICAL STABILITY (CONDITIONS TO AVOID): This material is considered stable. However, avoid temperatures above 177C/350F, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.

INCOMPATIBILITY: There are no known materials which are incompatible with this product.

HAZARDOUS DECOMPOSITION PRODUCTS: thermal decomposition may yield acrylic monomers.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

As packaged for consumers, this product is certified in a toxicological evaluation by a medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans, including children, or to cause acute or chronic health problems.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No applicable data.

CHEMICAL FATE INFORMATION: Appreciable evaporation from water to air is expected in the environment. No appreciable bioconcentration is expected in the environment.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local, State, and Federal waste disposal regulations.

14. TRANSPORT INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE

US DOT Hazard Class.....Nonregulated

15. REGULATORY INFORMATION:

NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED

U.S. FEDERAL REGULATIONS: The components of this product are included on the TSCA inventory.

OSHA: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200)

## MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

CERCLA: SARA HAZARD CATEGORY: Release of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

SECTION 313: This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: This product is not a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All components of this product are on the Domestic Substances List (DSL), and acceptable for use under the provisions of CEPA.

EINECS: All the components of this product are on the European Inventory of Existing Commercial Chemical Substances.

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS: The Volatile Organic Compounds (VOCs) are below the emission limits as regulated by The Environmental Protection Agency (EPA) and state regulations.

16. OTHER INFORMATION

NAME OF PREPARER: Dewey Wright

REVISION DATE: 01/14/03

HMIS CODES: H F R P
1 0 0 A

HMIS HAZARD RATINGS: H=HEALTH, F=FIRE, R=REACTIVITY, P=PERSONAL

SCALE: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

# MATERIAL SAFETY DATA SHEET

Date Printed: 10/05/11

PERSONAL PROTECTION: See Section 8, Exposure Controls/Personal Protection for recommended handling of material as supplied; check with supervisor for your actual use condition.
HMIS is a registered trademark of the National Paint and Coatings Association.

LIST OF ACRONYMS:
ACGIH: American Conference of Government Industrial Hygienists
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PPM: Parts Per Million
SARA: Superfund Amendment Reauthorization Act
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Please note that this MSDS applies to industrial handling of this material. Consumers should read product label. The information and recommendations set forth herein are believed to be accurate, The data is derived from information provided to Plaid Enterprises, Inc. from its raw material suppliers. Plaid Enterprises, Inc. makes no guarantee or warranty, expressed or implied, regarding the accuracy, reliability, or completeness of the data or the results to be obtained from the use thereof. It is the responsibility of the user of the product to comply with all applicable federal, state, and local laws and regulations.

V764

21707-1105

Product Name: Blick Matte Fixative
Product Code: 21707-1105

Print Date: 3/23/10
Total pages: Page 1 of 7

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name: Blick Matte Fixative**
**Product Code: 21707-1105** **Product Type:** Aerosol
**Product Use: Art Material Coating**

**Manufacturer**: Creative Art Materials Ltd. **Revision Date**:03/22/2010
**Address**: 4310 Cranwood Parkway
Warrensville Heights, OH 44128 **Phone**: (216)-518-0298

**NOTE:** The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Creative Art Materials Ltd. provides this information as guidance for providing personal protection to your employees. The user has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. The user must meet all applicable safety and health standards.

## 2. Composition / Information on Ingredients

| Ingredients | CAS # | Percent |
|---|---|---|
| Acetone | 67-64-1 | 35-45 |
| Isobutyl Acetate | 108-21-4 | 2-7 |
| Amorphous Precipitated Silica | 112945-52-5 | < 1 |
| Methyl Isobutyl Ketone | 108-10-1 | 2-4 |
| Methyl Ethyl Ketone | 78-93-3 | 2-4 |
| N. Butyl Acetate | 123-86-4 | <1 |
| Primary Amyl Acetate | 628-63-7 | 1-4 |
| Diacetone Alcohol | 123-42-2 | 2-7 |
| VM&P | 64742-89-8 | 1-3 |
| Ethyl Benzene | 1000-41-4 | 0-1 |
| Xylene | 1330-20-7 | 2-8 |
| Isopropanal | 67-63-0 | <1 |
| LPG | 68476-86-8 | 15-30 |

## 3. Hazards Identification

**CAUTION! CONTENTS UNDER PRESSURE EXTREMELY FLAMMABLE**

**Odor/Appearance**: Clear mist as dispensed from aerosol can.

### Potential health effects

***Routes of exposure:*** Skin, eyes, inhalation, ingestion.

**Eye Contact:**
May cause immediate or delayed irritation. Irritation may show up as redness and/or swelling. May cause corneal damage.

**Skin Contact:**
Repeated or prolonged contact with skin may produce redness, irritation and/or dryness. May cause or aggravate dermatitis or other existing skin condition.

**Inhalation:**
Inhalation of vapors or spray mist may cause headaches, and/or nose and throat irritation.

**Ingestion:**
Ingestion may cause irritation to the mouth, esophagus, and/or stomach.

**Signs or Overexposure:**
Irritation of eyes, nose, throat, digestive tract.

**Pre-existing Conditions Aggravated:**
Skin and respiratory disorders. Alcoholism, kidney, liver, cardiovascular and nervous system disorders.

**Target Organs:**
Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, mild, reversible kidney effects, effects on hearing, central nervous system damage

## *4. First Aid Measures*

**Eye Contact:**
Flush with warm water for 15 minutes. Seek medical attention.

**Skin Contact:**
Wash with soap and water. Remove any contaminated clothing and launder before reusing. If irritation persists, seek medical attention.

**Inhalation:**
Remove exposed individual to fresh air. protecting yourself. Restore breathing if necessary. Contact a physician.

**Ingestion:**
Immediately give the person two large glasses of water. Do not induce vomiting. Get medical attention immediately. DO NOT GIVE AN UNCONCIOUS OR CONVULSING PERSON ANYTHING BY MOUTH!

## 5. Fire Fighting Measures

**Flash Point:** Flash point of propellant <0 degrees F. Based on Propellant

**Flammable limits in air, % by volume:**

| | |
|---|---|
| **Upper:** | No Information |
| **Lower:** | No Information |

**Extinguishing Media:**
Dry chemical, carbon dioxide, halon, or foam is recommended. Water spray may be used to cool containers or structures. Halon may decompose into toxic materials and carbon dioxide will displace oxygen, take proper precautions when using these materials.

**Unusual Fire & Explosion Hazards:**
This material may be ignited by extreme heat, sparks, flames or other ignition sources (static electricity). Vapors are heavier than air and will collect in low areas (sewers) or travel considerable distances. If containers are not cooled in a fire, they may rupture and ignite.

**Special Fire Fighting Procedures:**
At elevated temperatures (over 130F) aerosol container may burst, vent or rupture; use equipment or shielding to protect personnel. Cooling exposed containers with streams of water may be helpful. Emergency responders should wear self-contained breathing apparatus. Wear other protective gear as conditions warrant. Keep unauthorized people out and try to contain spills or leaks if it can be done safely. Material will float on water, avoid spreading the fire.

## 6. Accidental Release Measures

**Spill or Leak Instructions**
Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

## 7. Handling and Storage

**Handling:**

Store below 120°F in cool, dry area, out of direct sunlight and away from strong oxidizers. Do not puncture or burst. Use in accordance with good work place practices. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld or apply heat to empty containers Do not incinerate

**Storage:**
Store in a cool, dry area, away form heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials

## *8. Exposure Controls / Personal Protection*

**Protective Equipment:**
Use synthetic gloves if necessary to prevent excessive skin contact. Do not wear contacts and always use ANSI approved safety glasses or splash shield.

**Engineering Controls:**
General or dilution ventilation is frequently sufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Use a NIOSH approved respirator if ventilation is not adequate to maintain exposures below TLV levels.

**Respiratory Protection:**
Use adequate ventilation to maintain exposure limits. If the exposure limits of the products or any of its components is exceeded, an approved organic vapor mask should be used (consult your safety equipment supplier). Above 1000 ppm, an approved self-contained breathing apparatus or airline respirator with full face-piece is required

**Other Suggested Equipment:**
Eye wash station and emergency showers should be available. Spill containment equipment should be available.

**Discretion Advised:**
Eveready. takes no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

**Exposure guidelines:**

| Ingredients | CAS # | Exposure Limits OSHA (PEL) | Exposure Limits ACGIH (TLV) |
|---|---|---|---|
| Acetone | 67-64-1 | 750 | 750 |
| Isobutyl Acetate | 108-21-4 | 150 | 150 |
| Amorphous Precipitated Silica | 112945-52-5 | N/A | N/A |
| Methyl Isobutyl Ketone | 108-10-1 | 100 | 50 |
| Methyl Ethyl Ketone | 78-93-3 | 200 | 200 |
| N. Butyl Acetate | 123-86-4 | 150 | 150 |
| Primary Amyl Acetate | 628-63-7 | 50 | 100 |
| Diacetone Alcohol | 123-42-2 | 50 | 50 |
| VM&P | 64742-89-8 | 300 | 300 |
| Ethyl Benzene | 100.41-4 | 100 ppm | 100 ppm |
| Xylene | 1330-20-7 | 100 | 100 |
| Isopropanal | 67-63-0 | 400 | 500 |
| LPG | 68476-86-8 | 1000 | 1000 |

Product Name: Blick Matte Fixative
Product Code: 21707-1105

Print Date: 3/23/10
Total pages: Page 5 of 7

## 9. Physical and Chemical Properties

**Boiling Point:** NA
**Specific Gravity:** <1
**Vapor Density:** >1(Air=1)
**Water Solubility:** Emulsifies
**Odor/Appearance:** Clear mist as dispensed from aerosol can.
**Evaporation Rate:** Ether = 1 Slower

## 10. Stability and Reactivity

**Stability:** Stable
**Conditions to Avoid:** Heat, spark, and open flame
**Incompatibility:** Strong-Oxidizing Agents
**Hazardous Decomposition:** Combustion will produce Carbon Monoxide, Carbon Dioxide and nitrogen-oxygen compounds.
**Hazardous Polymerization:** Will not occur

## 11. Toxicological Information

**Component Toxicological Information:**

| | | |
|---|---|---|
| **Acute oral toxicity** | | |
| | Acetone | LD 50 Rat: 5800 mg/kg |
| | Xyklene | LD 50 Rat 4,300 mg/kg |
| | Ethyl Benzene | LD 50 Rat 3,500 mg/kg |
| | Isopropanol | LD 50 >5,000 mg/kg |
| | Methyl Ethyl Ketone | LD 50 Rat 2737 mg/kg |
| | Methyl Isobutyl Ketone | LD 50 Rat 2080 mg/kg |
| **Acute inhalation toxicity** | | |
| | Acetone | LC 50 Rat: > 16,000 ppm, 4h |
| | Xylene | no date |
| | Ethyl Benzene | LC Lo Rat 4,000 ppm, 4 h |
| | Methyl Ethyl Ketone | LC 50 Rat 23,500 mg/m3 |
| **Acute dermal toxicity** | | |
| | Acetone | LD 50 Rabbit: > 20,000 mg/kg |
| | Xylene | LD 50 Rabbit > 2,000 mg/kg |
| | Ethyl Benzene | LD 50 Rabbit 15,433 mg/kg |
| | Isopropanol | LD 50 > 2.000 mg/kg |
| | Methyl EthyklKetone | LD50 Rabbit 6480 mg/kg |
| | Methyl Isobutyl Ketone | LD 50 Rabbit >20 gm/kg |

## 12. Ecological Information

N/A

## 13. Disposal Considerations

Do not puncture or burn containers. Give empty, leaking, or full containers to disposal service equipped to handle and dispose of aerosol (pressurized) containers. Dispose of spilled material in accordance with state

and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

## *14. Transport Information*

Ground (US DOT) Consumer Commodity
Class ORM-D,

AIR (IATA)
Consumer Commodity, Class 9, UN/ID 8000, Packing 1900, Authorization: Limited Quantity
Vessel
Aerosol (Limited Quantity), class 2, UN No 1950

## *15. Regulatory Information*

**Environmental Regulations**

**SARA 311/312:**
Immediate ( x ) Delayed ( ) Fire ( x ) Reactive ( ) Sudden Release of Pressure ( x )

**Section 313**
This product contains:

| | | |
|---|---|---|
| Xylene | 1330-20-7 | 1-5% |

California Prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which require a warning under the stature: Toluene, Benzene

California Prop 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Benzene, Ethyl Benzine

All the chemicals used in this product are TSCA listed.
Check with your local regulators to be sure all local regulations are met.

## *16. Other Information*

Product Name: Blick Matte Fixative
Product Code: 21707-1105

Print Date: 3/23/10
Total pages: Page 7 of 7

**Hazard ratings** This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

**NFPA:** Level 3 Aerosol

**HMIS:** Health: 3 Flammability: 4 Reactivity: 0

RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

**Note:**
For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Eveready makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product.

# SAFETY DATA SHEET

**9/28/2015**

## SECTION I - IDENTIFICATION

**Material Name**
BLICK LIQUID WATERCOLORS

**Company Information**

For transportation emergencies only call: 414-563-5323

For health emergencies call the Poison Control Center: 1-800-222-1222

## SECTION II - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

There are no GHS label elements.

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, EYE, SKIN

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: NONE EXPECTED

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: NONE EXPECTED

CARCINOGEN LISTING: NTP: **NO** IARC: **NO** OSHA: **NO**

SEE SECTION III FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: NONE

## SECTION III - COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

| Hazardous Ingredients | CAS/EC # | PEL/TLV (MG/M#) | Max % Weight | NTP | IARC |
|---|---|---|---|---|---|
| None | | | | | |

## SECTION IV - FIRST AID MEASURES

FIRST AID MEASURES: NONE REQUIRED. NO ACUTE HEALTH EFFECTS EXPECTED.

## SECTION V - FIRE FIGHTING MEASURES

FLASH POINT (METHOD): N/A
AUTOIGNITION TEMPERATURE: N/A
EXPLOSION LIMITS IN AIR (% BY VOLUME) NOT EXPLOSIVE

EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED
FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED
UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE

## SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: Clean up in accordance with all applicable regulations. Absorb spillage with non-combustible, absorbent material. For waste disposal, see Section XIII

## SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: Good industrial hygiene practice requires that exposure be maintained below the TLV. This is preferably achieved through the provision of adequate ventilation. When exposure cannot be adequately controlled in this way, personal respiratory protection should be employed.

## SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: NONE REQUIRED
OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED
WORK/HYGIENE PRACTICES: NONE REQUIRED
ENGINEERING CONTROLS: NONE REQUIRED

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A
MELTING POINT: N/A
VAPOR PRESSURE: N/A
SPECIFIC VAPOR DENSITY (AIR=1): N/A
SPECIFIC GRAVITY: N/A
SOLUBILITY IN WATER: N/A
REACTIVITY IN WATER: NON-REACTIVE

## SECTION X - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION PRODUCTS: N/A
STABILITY: STABLE CONDITIONS TO AVOID: N/A
INCOMPATIBILITY (MATERIALS TO AVOID): N/A
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and smoke

## SECTION XI - TOXICOLOGICAL INFORMATION

ACUTE EFFECTS ASSOCIATED WITH USE OF THIS MATERIAL: NONE EXPECTED
The summated LD50 is 39037 mg/kg.
The summated LC50 is 80115 mg/cubic meter.
This product is not considered to be a known or suspected human carcinogen by NTP, IARC or OSHA (see section III)

## SECTION XII - ECOLOGICAL INFORMATION

NO HARMFUL EFFECTS KNOWN OTHER THAN THOSE ASSOCIATED WITH SUSPENDED INERT SOLIDS IN WATER.

## SECTION XIII - DISPOSAL CONSIDERATIONS

RCRA HAZARD CLASS (40 CFR 261): THIS PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS WASTE.
WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

## SECTION XIV - TRANSPORTATION INFORMATION

[U.S. DOT (49 CFR 172.101): THIS IS NOT A HAZARDOUS MATERIAL AS CLASSIFIED BY CFR 172.101.]

## SECTION XV - REGULATORY INFORMATION

CONTENTS OF THIS SDS COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200
EPA SARA TITLE III CHEMICAL LISTINGS
NONE

SECTION 302.4 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
NONE

SECTION 313 TOXIC CHEMICALS (40 CFR 372):
NONE

INTERNATIONAL REGULATIONS

CANADIAN WHMIS: THIS PRODUCT IS A CONTROLLED PRODUCT UNDER CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. IT CONTAINS THE FOLLOWING TOXIC OR HIGHLY TOXIC MATERIALS:
CITRIC ACID
MICA
MICA/IRON OXIDE
PROPYLENE GLYCOL
TETRASODIUM PYROPHOSPHATE

SUPPLEMENTAL STATE COMPLIANCE INFORMATION:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED UNDER NEW JERSEY'S RIGHT TO KNOW PROGRAM:
MICA
MICA/IRON OXIDE
PROPYLENE GLYCOL
TETRASODIUM PYROPHOSPHATE

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) REQUIRING NOTIFICATION TO THE STATE OF WASHINGTON UNDER THEIR CHILDREN'S SAFE PRODUCTS ACT:
NONE

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED IN FLORIDA'S TOXIC SUBSTANCE LIST:
Mica dust
Tetrasodium pyrophosphate

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED IN MAINE'S PRIORITY CHEMICAL LIST:
NONE

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS CONSIDERED BY VERMONT AS BEING OF VERY HIGH CONCERN TO CHILDREN:
NONE

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED IN MASSACHUSETTS HAZARDOUS SUBSTANCE LIST:
Glycerine mist
Mica Dust
Tetrasodium pyrophosphate

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED ON MICHIGAN'S CRITICAL MATERIALS REGISTER:
NONE

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED ON MINNESOTA'S HAZARDOUS SUBSTANCES LIST:
Glycerin mist
Propylene glycol
Tetrasodium pyrophosphate

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED IN PENNSYLVANIA'S HAZARDOUS SUBSTANCES LIST:
1,2,3-Propanetriol
1,2-Propanediol

Diphosphoric acid, tetrasodium salt
Mica-group minerals

Under CPSC's consumer product regulations (16CFR1500.3 and 150014), this product has the following required acute and chronic hazard labeling:

NONE

## SECTION XVI - OTHER INFORMATION

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

**LAST REVISION DATE: 09/28/2015**

**Prepared by Duke OEM Toxicology**

## COLOR INFORMATION

THIS SDS APPLIES TO THE FOLLOWING COLORS WHICH ARE ASSOCIATED WITH HAZARDOUS AND/OR NON-HAZARDOUS INGREDIENTS

| Product Color | SKU | Hazardous Ingredient |
|---|---|---|
| 010 YELLOW | | (NONE) |
| 015 ORANGE | | (NONE) |
| 020 RED | | (NONE) |
| 022 PINK | | (NONE) |
| 025 MAGENTA | | (NONE) |
| 028 FUCHSIA | | (NONE) |
| 030 BLUE | | (NONE) |
| 035 TURQUOISE | | (NONE) |
| 040 VIOLET | | (NONE) |
| 045 GREEN | | (NONE) |
| 050 BROWN | | (NONE) |
| 055 BLACK | | (NONE) |
| 153 FL HOT PINK | | (NONE) |
| 154 FL RED | | (NONE) |
| 156 FL BLUE | | (NONE) |
| 158 FL GREEN | | (NONE) |
| 162 GOLD | | (NONE) |
| 164 COPPER | | (NONE) |
| 166 SILVER | | (NONE) |
| 168 PEARL | | (NONE) |
| BLICK ANITQUE GOLD | | (NONE) |
| BLICK BLUE GREEN | | (NONE) |
| BLICK BLUE-VIOLET | | (NONE) |
| BLICK CORAL | | (NONE) |
| BLICK FLUORESCENT CHARTREUESE | | (NONE) |
| BLICK FLUORESCENT CHARTREUSE | | (NONE) |
| BLICK FLUORESCENT YELLOW ORANGE | | (NONE) |
| BLICK PIRATE GOLD | | (NONE) |
| BLICK RED-VIOLET | | (NONE) |
| BLICK VIOLET | | (NONE) |
| BLICK YELLOW GREEN | | (NONE) |
| BLICK YELLOW ORANGE | | (NONE) |

---------- Page 1 of 4 ----

**-Section 1. Product Identification**

---

IDENTITY(as used on label): Art Maskoid Revision date: 03/24/2015

PRODUCT TYPE: Natural Latex Compound

Manufacturer: Andrew Jeri Company, Inc.
9438 U.S. 19 North, Suite 218
Port Richey, FL 34668
727-861-3954

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**Section 2. Hazards Identification**

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HMIS Hazard Class
Health: 0 Flammability: 0 Physical Hazards: None

* This product contain the following chemicals subject to the reporting requirements of SARA Section 313 and 40CFR Part 372: None

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**Section 3. Composition**

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Non-hazardous mixture

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**Section 4. First Aid Measures**

---

Routes of entry: Inhalation: Yes Dermal: Yes
Ingestion: Possible

Signs & symptoms of exposure: Eye, skin, or respiratory irritation.

Health hazards(acute & chronic): Product is alkaline and prolonged skin contact or direct eye contact may cause irritation. May cause intestinal blockage if swallowed. Excessive breathing of vapors may cause mild respiratory irritation.

Emergency first aid procedures: Eyes: Flush with water/rinse with USP eyewash. Skin: Wash with soap and water. Inhalation: Remove to fresh air. Ingestion: Drink water and consult physician.

**Section 5. Fire-Fighting Measures**

Specific hazards: Non-flammable but will burn

Extinguishing media: Foam, water spray or fog, dry chemical

Protective equipment: Use of SCBA is recommended

**Section 6. Accidental Release Measures**

Personal Precautions: None

Environmental Precautions: None

Clean up methods: Contain spill and soak up with industrial absorbent material. Landfill or incinerate in accordance with applicable federal and local regulations.

Protective Equipment: Splash-proof glasses or goggles

**Section 7. Handling and Storage**

Storage and Handling: Keep from freezing. Mix well before using. Keep containers properly sealed when not in use. Store under normal room conditions.

**Section 8. Exposure Controls/Personal Protection**

Respiratory Protection: Not required where adequate ventilation exists.

Ventilation/Local Exhaust: Preferable

Ventilation/Mechanical Exhaust(General): Acceptable

Protective Gloves: Recommended

Eye Protection**:** Splash-proof safety goggles

Other Protective Clothing or Equipment: Eyewash station or equivalent

Work/Hygienic Practices: Observe normal good housekeeping practices. Avoid spills.

---------- Page 3 of 4 ----

**Section 9. Physical and Chemical Properties**

---

Physical state: Aqueous emulsion
Color: White liquid
Odor: Ammonia
Flash Point: None
Specific Gravity: 0.95
Solubility in water: Dispersible
Boiling point: 212F(100C)

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**Section 10. Reactivity and Stability**

---

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility(conditions to avoid): Acidic materials may cause product to coagulate

Hazardous Decomposition Products: Oxides of carbon from thermal decomposition

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**Section 11. Toxicological Information**

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Toxicological data: Not determined for this product

Skin irritation: May be mildly irritating to some individuals

Eye irritation: Direct eye contact may cause mild irritation

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**Section 12. Ecological Information**

---

Ecotoxicological data: None generated for this product.

Mobility: Will disperse in water.

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**Section 13. Disposal Considerations**

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Product Disposal: Recover or recycle if possible, otherwise landfill or incinerate in accordance with applicable local and federal regulations.

Waste Characterization: Not considered a RCRA hazardous waste.
Not regulated under CERCLA.
Not regulated under EPCRA.
Not regulated under SARA(all sections).

**Section 14. Transport Information**

US Department of Transportation (DOT) 49CFR 171-180
This product is not classified as hazardous.

Harmonized Tariff System (HTS)
Harmonized system number: 4001.10

**Section 15. Regulatory Information**

Global Chemical Inventory Status – All components are included in the following lists:

Australia – AICS
Canada – DSL
China – IECSC
EU – EINECS
Japan – IENECS
Korea – KECI
New Zealand
Philippines
Taiwan
USA – TSCA

This document is compliant with the Globally Harmonized System (GHS) for the classification, labeling, and packaging (CLP) of substances and mixtures.

**Section 16. Other Information**

The information contained in this document is presented in good faith and believed to be accurate as of the date it was prepared. It is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws.

# SAFETY DATA SHEET

## *SECTION 1 – COMPANY AND PRODUCT IDENTIFICATION*

**Golden Artist Colors, Inc.**
188 Bell Road
New Berlin, NY 13411

**Date Revised:** 11/22/2016
**Phone:** (607)847-6154
**Prepared by:** Ben Gavett

| | **COMPONENTS (See Sec. 3)** |
|---|---|
| **COLOR LINES** | |
| GOLDEN Airbrush Colors | 1,29 |
| GOLDEN Acrylics | 1,29 |
| GOLDEN Fluid Acrylics | 1,29 |
| GOLDEN High Flow Acrylics | 1,29 |
| GOLDEN High Load Acrylics | 1,5,20,29 |
| GOLDEN Glazes | 1,5,29 |
| GOLDEN Matte Acrylics | 1,5,20,29 |
| GOLDEN Matte Fluid Acrylics | 1,5,20,29 |
| GOLDEN OPEN Acrylics | 1,29 |
| **Individual Colors** | |
| Alizarin Crimson Hue | - |
| Anthraquinone Blue | - |
| Anthraquinone Red | - |
| Aurolein Yellow Hue | 24 |
| Azurite Hue | 19,34 |
| Bismuth Vanadate Yellow | 8.5 |
| Bone Black | 13 |
| Bright Orange | - |
| Bright Red Orange | - |
| Bright Yellow-Green | - |
| Burnt Sienna | 20,24 |
| Burnt Sienna Hue | - |
| Burnt Umber & Burnt Umber Light | 20,24,25 |
| Cadmium Red Medium Hue | - |
| Cadmium Yellow Medium Hue | 6,28 |
| Carbon Black | 13 |
| Cerulean Blue, Chromium | 14,18 |
| Cerulean Blue Deep | 14,18 |
| Cerulean Blue Hue | 3,5,19,33 |
| Chrome Oxide Green (all) | 14 |
| C.P. Cadmium Orange | 7,9,10 |
| C.P. Cadmium Red (all) | 7,9,10 |
| C.P. Cadmium Yellow (Dark, Lt., Med.) | 7,9,35 |
| C.P. Cadmium Yellow Primrose | 7,9,35 |
| Coarse Alumina | 4,33 |
| Cobalt Blue | 18 |
| Cobalt Blue Hue | 19,33 |

| | |
|---|---|
| Cobalt Green | 14,18 |
| Cobalt Teal | 18 |
| Cobalt Titanate Green | 6,18,28 |
| Cobalt Turquoise | 14,18 |
| Cobalt Violet Hue | 34 |
| Deep Violet | - |
| Diarylide Yellow | - |
| Dioxazine Purple | - |
| Fluorescent (all colors) | 22 |
| Graphite Gray | 23 |
| Green Gold | 8,28 |
| Hansa Yellow (Lt., Med. & Opaque) | - |
| Hookers Green Hue (Airbrush Line) | 13,19 |
| Hookers Green Hue (GOLDEN Acrylic Line) | 28 |
| Indian Yellow Hue | 28 |
| Interference Colors | 27,33 |
| Interference Colors (Color Travel) | 5,33 |
| Iridescent Black Mica Flake | 27 |
| Iridescent Bright Gold | 27,28,33 |
| Iridescent Bronze | 19,24,27 |
| Iridescent Copper (and Coarse) | 24,27,33 |
| Iridescent Copper Lt. (and Coarse) | 24,27 |
| Iridescent Gold (and Coarse) | 24,27,33 |
| Iridescent Gold Deep | 24,27,33 |
| Iridescent Gold Mica Flake (Small & Large) | 27 |
| Iridescent Pearl (and Coarse) | 27,33 |
| Iridescent Pearl Mica Flake | 27 |
| Iridescent Silver | 23,27,33 |
| Irid. Stain. Steel (Coarse and Fine) | 15,28 |
| Jenkins Green | 8,19,28 |
| Light Green (Blue Shade) | 33 |
| Light Green (Yellow Shade) | 33 |
| Light Magenta | 33 |
| Light Turquois (Phthalo) | 19,33 |
| Light Ultramarine Blue | 33 |
| Light Violet | 33 |
| Manganese Blue Hue | 34 |
| Mars Black | 24 |
| Mars Yellow | 24 |
| Medium Magenta | 33 |
| Medium Violet | 33 |
| Micaceous Iron Oxide | 24 |
| Naphthol Red (Lt. & Med.) | - |
| Naples Yellow Hue | 24,33 |
| Neutral Grays (all) | 5,20,24,25,33 |
| Nickel Azo Yellow | 26,28 |
| Paynes Gray | 13 |
| Perm. Green Lt. | 19 |
| Perm. Green Dark | 19 |
| Permanent Maroon | - |

| | |
|---|---|
| Permanent Violet Dark | - |
| Phosphorescent | 35 |
| Phthalo Blue GS | 19 |
| Phthalo Blue RS | 19 |
| Phthalo Green BS | 19 |
| Phthalo Green YS | 19 |
| Primary Cyan | 19,20 |
| Primary Magenta | 20 |
| Primary Yellow | 20 |
| Prussian Blue Hue | 19 |
| Pyrrole Colors (all) | - |
| Quinacridone Burnt Orange | 31 |
| Quinacridone Crimson | 31 |
| Quinacridone/Nickel Azo Gold | - |
| Quinacridone Magenta | - |
| Quinacridone Red | 25 |
| Quinacridone Red Lt. | 30 |
| Quinacridone Violet | - |
| Raw Sienna | 20,24 |
| Raw Sienna Hue | - |
| Raw Umber | 20,24,25 |
| Raw Umber Hue | 13 |
| Red Oxide | 24 |
| Sap Green Hue | 13,19,24,28 |
| Sepia | 13,24,28 |
| Shading Gray | 13 |
| Smalt Hue | 13 |
| Teal | 3,519,33 |
| Terre Verte Hue | 14,20 |
| Titan Buff | 20,33 |
| Titan Green Pale | 3,5,19,33 |
| Titanate Yellow | 6,28 |
| Titanium White | 3,5,33 |
| Transparent Brown Iron Oxide | 13,24 |
| Transparent Red Iron Oxide | 24 |
| Transparent Shading Gray | 13 |
| Transparent Yellow Iron Oxide | 24 |
| Turquoise (Phthalo) | 19 |
| Ultramarine Blue | - |
| Ultramarine Blue Hue | 3,5,19,33 |
| Ultramarine Violet | - |
| Van Dyke Brown Hue | 13,24 |
| Vat Orange | - |
| Violet Oxide | 24 |
| Viridian Green Hue | 28,34 |
| Yellow Ochre | 20,24, |
| Yellow Oxide | 24 |
| Zinc White | 34 |

**GOLDEN GELS, MEDIUMS, GESSOS & GROUNDS**

| | | |
|---|---|---|
| 03001 | Self Leveling Clear Gel | 1,29 |
| 03010 | Soft Gel (Gloss) | 1,29 |
| 03013 | Soft Gel (Matte) | 1,5,20,29 |
| 03017 | Soft Gel (Semi-gloss) | 1,5,29 |
| 03020 | Regular Gel (Gloss) | 1,29 |
| 03030 | Regular Gel (Matte) | 1,5,20,29 |
| 03040 | Regular Gel (Semi-gloss) | 1,5,29 |
| 03050 | Heavy Gel (Gloss) | 1,29 |
| 03060 | Heavy Gel (Matte) | 1,5,20,29 |
| 03070 | Heavy Gel (Semi-gloss) | 1,5,29 |
| 03080 | Extra Heavy Gel (Gloss) | 1,29 |
| 03090 | Extra Heavy Gel (Matte) | 1,5,20,29 |
| 03100 | Extra Heavy Gel (Semi-gloss) | 1,5,29 |
| 03110 | Extra Heavy/Molding Paste | 1,11,29 |
| 03120 | High Solid Gel (Gloss) | 1,21,29 |
| 03130 | High Solid Gel (Matte) | 1,5,20,21,29 |
| 03135 | OPEN Acrylic Gel Medium | 1, 29 |
| 03136 | OPEN Gel Medium (Matte) | 1,5,29 |
| 03195 | Fine Pumice Gel | 1,5,29 |
| 03200 | Coarse Pumice Gel | 1,5,29 |
| 03205 | Extra Coarse Pumice Gel | 1,5,29 |
| 03215 | Clear Granular Gel | 1,29 |
| 03232 | Garnet Gels (Fine) | 1,20,29 |
| 03234 | Garnet Gels (Coarse) | 1,20,29 |
| 03230 | Garnet Gels (Extra Coarse) | 1,20,29 |
| 03236 | Glass Bead Gel | 1,21,29 |
| 03240 | Fiber Paste | 1,29 |
| 03330 | Clear Tar Gel | 1,29 |
| 03508 | Clear Pouring Medium (Thick) | 1,29 |
| 03509 | Clear Pouring Medium (Thin) | 1,29 |
| 03510 | Polymer Medium (Gloss) | 1,29 |
| 03513 | Pouring Medium #3 (Custom) | 1,21,29 |
| 03520 | Fluid Matte Medium | 1,5,29 |
| 03530 | Matte Medium | 1,5,29 |
| 03531 | Super Loaded Matte Medium | 1,20,29 |
| 03535 | Airbrush Medium | 1,29 |
| 03537 | Airbrush Transparent Extender | 1,29 |
| 03550 | Gesso | 1,5,11,29 |
| 03551 | Sandable Hard Gesso | 1,5,11,29,32 |
| 03555 | Absorbent Ground (White) | 1,20,29 |
| 03556 | Absorbent Ground (Canvas) | 1,20,29 |
| 03557 | Crackle Paste | 1,12,29,33 |
| 03558 | Silverpoint / Drawing Ground | 1,3,29,33 |
| 03560 | Black Gesso | 1,11,20,29 |
| 03570 | Molding Paste | 1,11,29 |
| 03571 | Hard Molding Paste | 1,11,29 |
| 03572 | Coarse Molding Paste | 1,11,29 |
| 03575 | Light Molding Paste | 1,29 |
| 03580 | Retarder | 29 |

| | | |
|---|---|---|
| 03595 | OPEN Acrylic Thinner | 29 |
| 03640 | Acrylic Ground for Pastels | 1,20,29 |
| 03670 | Acrylic Modifier for Plaster | 1,29 |
| 03690 | Silkscreen Medium | 1,29 |
| 03695 | Silkscreen Fabric Gel | 1,22,29 |
| 03720 | Acrylic Glazing Liquid (Gloss) | 1,29 |
| 03721 | Acrylic Glazing Liquid (Satin) | 1,29 |
| 03725 | OPEN Acrylic Fluid Medium | 1,29 |
| 03726 | OPEN Medium (Matte) | 1,5,29 |
| 03750 | Stop Out Varnish | 1,13,29 |
| 03910 | GAC-100 Acrylic | 1,29 |
| 03920 | GAC-200 Acrylic | 1,29 |
| 03940 | GAC-400 Acrylic | 1,22,29 |
| 03950 | GAC-500 Acrylic | 1,29 |
| 03970 | GAC-700 Acrylic | 1,29 |
| 03980 | GAC-800 Acrylic | 1,29 |
| 03990 | GAC-900 Acrylic | 1,22,29 |
| 07750 | Acrylic Topcoat Ultra Matte | 1,5,29 |
| 07770 | Porcelain Restoration Glaze (Gloss) | 1,29 |
| 07771 | Porcelain Restoration Glaze (Matte) | 1,5,29 |
| 08510 | Liquid Thickener (Long Rheology) | - |
| 08520 | Liquid Thickener (Short Rheology) | - |

## *SECTION 2 - HAZARD IDENTIFICATION*

## PRODUCTS DO NOT MEET OSHA/GHS HAZARD CLASSIFICATION CRITIA

### HAZARDS NOT OTHERWISE CLASSIFIED:

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** None expected under normal conditions of use. Irritation of the nose, throat and lungs is associated with excessive exposure to ammonia, which may occur when large volumes of product are used in an area with limited ventilation.

GAC-400 Acrylic and GAC-900 Acrylic contain formaldehyde, which may irritate the respiratory system, or cause allergic reaction in sensitized individuals. See "Additional Hazards" for formaldehyde, below.

**EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** Contact may be slightly irritating to eyes.

**SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** Prolonged or repeated contact may be irritating to skin.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** May cause irritation to gastrointestinal system.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure.

**ADDITIONAL HAZARDS ASSOCIATED WITH SPECIFIED PIGMENTS OR THEIR COMPONENTS IDENTIFIED IN SECTION 3:**

CADMIUM- Cadmium Compounds are classified by IARC as probably carcinogenic in humans. OSHA also classifies such compounds as causing lung and kidney disease. **WARNING: DO NOT SPRAY APPLY –** This product contains cadmium, a chemical known to the State of California to cause cancer by means of inhalation.

CARBON BLACK- IARC classification as Group 2B, possibly carcinogenic to humans **WARNING:** This product contains a chemical known to the State of California to cause cancer. (Applies to airborne particles of respirable size only)

CERULEAN BLUE- Skin contact may cause allergic sensitization. Ingestion may cause systemic toxicity.

CRYSTALLINE SILICA- Considered a carcinogen through inhalation overexposure. Also a known cause of silicosis, a noncancerous lung disease. **WARNING:** This product contains a chemical known to the State of California to cause cancer. (Applies to airborne particles of respirable size only)

COBALT COMPOUNDS- Individuals hypersensitive to Cobalt may develop asthma, bronchitis, or shortness of breath. May cause skin sensitization.

CHROMIUM- Long term inhalation exposure to trivalent chromium compounds may cause damage to the lungs and respiratory tract. While Chromium and some of its compounds are considered carcinogenic, both in animals and humans, evidence of Chromium (III) compound carcinogenicity is inconclusive.

FORMALDEHYDE- Listed as a suspected human carcinogen by ACGIH, potentially carcinogenic by NIOSH and OSHA, and a known human carcinogen by NTP. **WARNING:** This product contains a chemical known to the State of California to cause cancer.

MANGANESE- Overexposure may affect the Central Nervous System and lungs, resulting in transitory psychosis, tiredness, weakness and pneumonitis. May aggravate preexisting neuralgic conditions.

MICA- Can cause slight lung fibrosis and pneumoconiosis.

NICKEL, METAL AND COMPOUNDS- IARC and NTP also state there is sufficient evidence of carcinogenicity in experimental animals and humans. Ingestion may result in damage to the testes. **WARNING:** This product contains a chemical known to the State of California to cause cancer.

QUINACRIDONES- Overexposure may cause dermatitis. Pigment contains a compound found to be a skin, eye and respiratory irritant.

TITANIUM DIOXIDE- Listed by IARC under category 2B, possibly carcinogenic to humans.

ZINC- Overexposure may result in fever, chills, muscular pain or nausea.

## *SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS*

| CODE | | Max % | CAS NUMBER | OSHA PERMISSIBLE EXPOSURE LIMITS TWA | STEL | CEILING |
|---|---|---|---|---|---|---|
| 1 | Ammonium Hydroxide (26%) | .2 | 1336-21-6 | | 35 ppm | |
| 2 | Alumina | 1 | 1344-28-1 | 10 mg/$M^3$ | | |
| 3 | Aluminum Hydroxide | 5 | 21645-51-2 | NE | | |
| 4 | Aluminum Oxide | 20 | 1344-28-1 | 10 mg/$M^3$ | | |
| 5 | Amorphous Silica | 10 | 7631-86-9 | 6 mg/$M^3$ | | |
| 6 | Antimony and Compounds | 10 | 7440-36-0 | .5 mg/$M^3$ | | |
| 7 | Barium Sulfate | 10 | 7727-43-7 | 10 mg/$M^3$ | | |
| 8 | Barium, Soluble Compounds | 5 | 7440-39-3 | .5 mg/$M^3$ | | |
| 8.5 | Bismuth Vanadium Oxide | 22 | 14059-33-7 | 15 mg/$M^3$ | | |
| 9 | Cadmium Sulfide | 20 | 1306-23-6 | 5 μg/$M^3$ (as Cadmium) | | |
| 10 | Cadmium Selenide | 20 | 1306-24-7 | 5 μg/$M^3$ (as Cadmium) | | |
| 11 | Calcium Carbonate | 25 | 1317-65-3 | 15 mg/$M^3$ | | |
| 12 | Calcium Silicate | 5 | 13983-17-0 | NE | | |
| 13 | Carbon Black | 25 | 1333-86-4 | 3.5 mg/$M^3$ | | |
| 14 | Chromium (III) Compounds | 20 | vary | .5 mg/$M^3$ | | |
| 15 | Chromium Metal | 10 | 7440-47-3 | 1 mg/$M^3$ | | |
| 16 | CI PY 35 (Cadmium Pigment) | 25 | 8048-07-5 | 5 μg/$M^3$ (as Cadmium) | | |
| 17 | CI PR 108 (Cadmium Pigment) | 25 | 58339-34-7 | 5 μg/$M^3$ (as Cadmium) | | |
| 18 | Cobalt Compounds | 20 | vary | | | |
| 19 | Copper | 5 | 7440-50-8 | 1 mg/$M^3$ | | |
| 20 | Crystalline Silica | 5 | 14464-46-1 | .05 mg/$M^3$ | | |
| 21 | Dipropylene Glycol-Monobutyl Ether | 5 | 29911-28-2 | NE | | |
| 22 | Formaldehyde | .05 | 50-00-0 | .75 ppm | 2 ppm | |
| 23 | Graphite(natural) | 20 | 7782-42-5 | 2.5 mg/$M^3$ | | |
| 24 | Iron Oxide | 25 | 1309-37-1 | 10 mg/$M^3$ | | |
| 25 | Manganese compounds | 5 | 7439-96-5 | NE | 5 mg/$M^3$ | |
| 27 | Mica | 15 | 12001-26-2 | 3 mg/$M^3$ | | |
| 28 | Nickel Compounds | 15 | vary | .1 mg/$M^3$ | | |
| 29 | Propylene Glycol | 70 | 57-55-6 | NE | | |
| 30 | Quaternary Ammonium Salt | 5 | 112-02-7 | NE | | |
| 31 | Quinacridonequinone | 5 | 1503-48-6 | NE | | |
| 32 | Talc | 10 | 14807-96-6 | 2 mg/$M^3$ | | |
| 33 | Titanium Dioxide | 30 | 13463-67-7 | 10 mg/$M^3$ | | |
| 34 | Zinc Oxide | 20 | 1314-13-2 | 10 mg/$M^3$ | | |
| 35 | Zinc Sulfide, Cu Chloride Doped | 30 | 68611-70-1 | NE | | |

TWA= Time Weighted Average (ave. airborne exposure in 8 hr work shift work week)
STEL= Short Term Exposure Limit (15 minute time weighted average exposure)
CEILING = exposure not to be exceeded during any part of the work day
NE = None established
mg/$M^3$ = approximate milligrams of substance per cubic meter of air

## *SECTION 4 - FIRST AID MEASURES*

**EYE CONTACT:** Flush with water for 15 minutes. SEE DOCTOR if any symptoms persist.
**SKIN CONTACT:** Wash with soap and water. SEE DOCTOR if skin irritation occurs.
**INHALATION:** Remove subject to fresh air. SEE DOCTOR if symptoms persist
**INGESTION:** If swallowed, dilute by giving 2 or more glasses of water to drink ONLY IF CONSCIOUS! SEE DOCTOR.

## *SECTION 5 - FIRE FIGHTING MEASURES*

**FLASH POINT:** None **METHOD USED:** N/A
**FLAMMABLE LIMITS IN AIR BY VOLUME:** **LOWER:** N/A **UPPER:** N/A
**EXTINGUISHING MEDIA:** Carbon dioxide, water spray, foam or dry chemical.
**SPECIAL FIRE FIGHTING PROCEDURES:** Use self-contained breathing apparatus and full protective clothing.
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Decomposition and combustion products may be toxic.

## *SECTION 6 – ACCIDENTAL RELEASE MEASURES*

Contain spill. Recover material for use or proper disposal. Clean reside with aqueous mopping.

## *SECTION 7 - HANDLING AND STORAGE*

For best product stability, avoid freezing and higher than normal ambient temperatures.

## *SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION*

**RESPIRATORY PROTECTION:** None required under normal use. When sanding or spraying, use a NIOSH P100 dust and mist respirator. If conditions warrant, a vapor respirator for protection against ammonia may be used.

**VENTILATION:** General dilution ventilation is recommended at a level sufficient to keep individuals asymptomatic to inhalation exposure.

**PROTECTIVE GLOVES:** None required under normal use. For techniques requiring continual hand exposure, gloves are recommended.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None required under normal use.

**WORK/HYGIENIC PRACTICES:** All Golden products should be used in accordance with safe handling practices, including: do not eat, drink or smoke when working with materials, avoid excessive skin contact, wash after working with materials.

## *SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES*

**BOILING POINT:** >100$^{o}$C/212$^{o}$F **SPECIFIC GRAVITY ($H_20$=1):** 1.0-2.0

**VAPOR DENSITY:** Heavier than air **pH:** 8.5-9.2
**SOLUBILITY IN WATER:** Miscibile
**APPEARANCE AND ODOR:** Milky white or colored- slight ammonia odor

## *SECTION 10 - STABILITY AND REACTIVITY*

**STABILITY:** Stable
**INCOMPATIBILITY:** May react with strong oxidizers
**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** Paynes Gray, Ultramarine Blue and Ultramarine Violet may react with acids to form flammable and toxic hydrogen sulfide. Acid decomposition of cadmium pigments may yield hydrogen sulfide, selenide gases and toxic cadmium salts in solution. If cadmiums are heated to above 800$^{o}$C, decomposition to toxic fumes of cadmium oxide, zinc oxide, sulfur dioxide and selenium dioxide will occur.

## *SECTION 11 – TOXICOLOGICAL INFORMATION*

Product not tested. Classification based on ingredient information

## *SECTION 12 – ECOLOGICAL INFORMATION*

Not readily biodegradable. No other data available.

## *SECTION 13 – DISPOSAL CONSIDERATIONS*

Dispose as per local regulations. It is best to use all material, rather than dispose of it. If necessary, dispose of as latex paint. Cadmium pigmented paints should be handled as hazardous wastes.

## *SECTION 14 -TRANSPORT INFORMATION*

Not hazardous for shipping via any mode.

NOT REGULATED FOR TRANSPORT BY IATA, IMDG OR DOT.

## *SECTION 15 – REGULATORY INFORMATION*

Contact us for further information.

## *SECTION 16 – OTHER INFORMATION*

4/5/2013: Added High Flow Colors
3/13/2015: Deleted Prop 65 Warning for Zinc White
4/26/2016: Corrected Phosphorescent pigment CAS
11/22/2016: Section 14

# Material Safety Data Sheet

**Issuing Date** No data available **Revision Date** **Revision Number** 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** **COPIC INK**

**UN-No** UN1210

**Recommended Use** Markers Pens

**Supplier Address**
Too Marker Products Inc.
20-8, EBISU 1-CHOME,
SHIBUYA-KU
TOKYO 150-0013,
JAPAN
TEL: (+81) 3-3440-1536

**Emergency Telephone Number** (+81) 3-3440-6141

## 2. HAZARDS IDENTIFICATION

**WARNING!**

### Emergency Overview

FLAMMABLE LIQUID AND VAPOR
Harmful if swallowed, inhaled, or absorbed through skin
May cause skin, eye, and respiratory tract irritation
May cause central nervous system depression
May cause adverse effects on the bone marrow and blood-forming system
May cause adverse liver effects
Contains a known or suspected reproductive toxin

**Appearance** Translucent **Physical State** Liquid. **Odor** Alcohol

**Potential Health Effects**

**Principle Routes of Exposure** Skin contact. Eye contact.

**Acute Toxicity**

**Eyes** May cause irritation.

**Skin** Harmful if absorbed through skin. May cause irritation.

**Inhalation** Harmful by inhalation. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

**Ingestion** Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression.

**Chronic Effects** Avoid repeated exposure. Contains a known or suspected reproductive toxin. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

**Aggravated Medical Conditions** Central nervous system. Gastrointestinal tract. Pre-existing eye disorders. Blood disorders. Liver disorders. Overexposure may cause female and male reproductive disorder(s). Skin disorders. Respiratory disorders. Reproductive toxicity.

**Interactions with Other Chemicals** Use of alcoholic beverages may enhance toxic effects.

**Environmental Hazard** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological Information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|---|---|---|
| Ethanol | 64-17-5 | 62-82 |
| Rosin, maleated, polymer with Pentaerythritol | 68333-69-7 | 5-12 |
| Propanol | 71-23-8 | 7.5-9 |
| Isopropyl alcohol | 67-63-0 | 3.5-4.5 |
| Ink | RR-00341-8 | <3 |
| Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | 9036-19-5 | 1.0-3.3 |

## 4. FIRST AID MEASURES

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

**Skin Contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Inhalation** Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If symptoms persist, call a physician.

**Ingestion** Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person.

**Notes to Physician** Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

**Protection of First-aiders** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. FIRE-FIGHTING MEASURES

**Flammable Properties** HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water.

**Flash Point** 55.4°F / 13°C

**Suitable Extinguishing Media** Dry chemical, $CO_2$, water spray or alcohol-resistant foam.

**Unsuitable Extinguishing Media** CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use dry chemical extinguishers to control fires involving nitromethane or nitroethane Do not use straight streams.

**Explosion Data**
**Sensitivity to Mechanical Impact** None.
**Sensitivity to Static Discharge** Yes.

**Specific Hazards Arising from the Chemical** Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazard** 2 | **Flammability** 4 | **Stability** 0 | **Physical and Chemical Hazards** - |
| **HMIS** | **Health Hazard** 2* | **Flammability** 4 | **Physical Hazard** 0 | **Personal Protection** B |

**Indicates a chronic health hazard.*

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

**Environmental Precautions** Prevent entry into waterways, sewers, basements or confined areas.

**Methods for Containment** A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Methods for Cleaning Up** Use clean non-sparking tools to collect absorbed material.

**Other Information** Water spray may reduce vapor; but may not prevent ignition in closed spaces.

## 7. HANDLING AND STORAGE

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only in area provided with appropriate exhaust ventilation.

**Storage** Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Ethanol<br>64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m$^3$<br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1900 mg/m$^3$ | IDLH: 3300 ppm 10% LEL<br>TWA: 1000 ppm<br>TWA: 1900 mg/m$^3$ |

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Propanol<br>71-23-8 | TWA: 100 ppm | TWA: 200 ppm<br>TWA: 500 mg/m$^3$<br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 500 mg/m$^3$<br>(vacated) STEL: 250 ppm<br>(vacated) STEL: 625 mg/m$^3$ | IDLH: 800 ppm<br>TWA: 500 mg/m$^3$<br>TWA: 200 ppm<br>STEL: 250 ppm<br>STEL: 625 mg/m$^3$ |
| Isopropyl alcohol<br>67-63-0 | STEL = 400 ppm<br>TWA: 200 ppm | TWA: 400 ppm<br>TWA: 980 mg/m$^3$<br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 980 mg/m$^3$<br>(vacated) STEL: 1225 mg/m$^3$<br>(vacated) STEL: 500 ppm | IDLH: 2000 ppm 10% LEL<br>TWA: 980 mg/m$^3$<br>TWA: 400 ppm<br>STEL: 500 ppm<br>STEL: 1225 mg/m$^3$ |

*NIOSH IDLH: Immediately Dangerous to Life or Health*

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Measures** Showers
Eyewash stations
Ventilation systems

**Personal Protective Equipment**

**Eye/Face Protection** Tightly fitting safety goggles.

**Skin and Body Protection** Protective gloves. Lightweight protective clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Appearance** | Translucent. | **Odor** | Alcohol. |
| **Odor Threshold** | No information available | **Physical State** | Liquid |
| **pH** | No information available | | |
| **Flash Point** | 55.4°F / 13°C | **Autoignition Temperature** | No information available |
| **Decomposition Temperature** | No information available | **Boiling Point/Range** | (based on Ethanol): 78.3°C |
| **Melting Point/Range** | No information available | | |
| **Flammability Limits in Air** | No information available | **Explosion Limits** | No information available |
| **Specific Gravity** | No data available | **Solubility** | No information available |
| **Evaporation Rate** | No information available | **Vapor Pressure** | No data available |
| **Vapor Density** | No data available | **VOC Content(%)** | 84.483 |

## 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions.

**Incompatible Products** Strong oxidizing agents. Acids. Chlorinated compounds.

**Conditions to Avoid** Heat, flames and sparks.

**Hazardous Decomposition Products** Carbon oxides.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

**Product Information** Harmful if swallowed, inhaled, or absorbed through skin.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Ethanol | 7060 mg/kg ( Rat ) | | |
| Propanol | 1870 mg/kg ( Rat ) | | 13548 ppm ( Rat ) 4 h |
| Isopropyl alcohol | 4396 mg/kg ( Rat ) | 12800 mg/kg ( Rat )<br>12870 mg/kg ( Rabbit ) | 72.6 mg/L ( Rat ) 4 h |
| Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- | 4190 mg/kg ( Rat ) | | |

**Chronic Toxicity**

**Chronic Toxicity** Avoid repeated exposure. Contains a known or suspected reproductive toxin. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Ethanol | A3 | Group 1 | Known | X |
| Isopropyl alcohol | | Group 3 | | X |

**ACGIH: (American Conference of Governmental Industrial Hygienists)**
A3 - Animal Carcinogen
**IARC: (International Agency for Research on Cancer)**
Group 1 - Carcinogenic to Humans
Group 3 - Not Classifiable as to Carcinogenicity in Humans
**NTP: (National Toxicity Program)**
Known - Known Carcinogen
**OSHA: (Occupational Safety & Health Administration)**
X - Present

**Target Organ Effects** Blood. Central nervous system (CNS). Eyes. Gastrointestinal tract (GI). Liver. Reproductive system. Respiratory system. Skin.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---|---|---|---|---|
| Ethanol | | LC50: 12.0-16.0 ml/L Oncorhynchus mykiss 96 h static<br>LC50: >100 mg/L Pimephales promelas 96 h static<br>LC50: 13400-15100 mg/L Pimephales promelas 96 h flow-through | EC50 = 34634 mg/L 30 min<br>EC50 = 35470 mg/L 5 min | LC50: 9268 - 14221 mg/L Daphnia magna 48 h<br>EC50: 10800 mg/L Daphnia magna 24 h<br>EC50: 2 mg/L Daphnia magna 48 h Static |
| Propanol | | LC50: 4480 mg/L Pimephales promelas 96 h flow-through | EC50 = 17700 mg/L 5 min<br>EC50 = 45000 mg/L 5 h<br>EC50 = 8686 mg/L 15 min<br>EC50 = 980 mg/L 12 h | EC50: 3642 mg/L Daphnia magna 48 h<br>EC50: 3339 - 3977 mg/L Daphnia magna 48 h Static |
| Isopropyl alcohol | EC50: >1000 mg/L Desmodesmus subspicatus 96 h<br>EC50: >1000 mg/L Desmodesmus subspicatus 72 h | LC50: 9640 mg/L Pimephales promelas 96 h flow-through<br>LC50: 11130 mg/L Pimephales promelas 96 h static<br>LC50: >1400000 µg/L Lepomis macrochirus 96 h | | EC50: 13299 mg/L Daphnia magna 48 h |

| Chemical Name | Log Pow |
|---|---|
| Ethanol | -0.32 |
| Propanol | 0.34 |
| Isopropyl alcohol | 0.05 |

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Do not re-use empty containers.

**US EPA Waste Number** D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste |
|---|---|
| Ethanol | Toxic<br>Ignitable |
| Propanol | Toxic<br>Ignitable |
| Isopropyl alcohol | Toxic<br>Ignitable |
| Ink | Toxic |

## 14. TRANSPORT INFORMATION

**DOT**

**Proper Shipping Name** Printing ink
**Hazard Class** 3
**UN-No** UN1210
**Packing Group** II
**Description** UN1210, Printing ink, 3, PG II

## 14. TRANSPORT INFORMATION

**TDG**

| | |
|---|---|
| **Proper Shipping Name** | Printing ink |
| **Hazard Class** | 3 |
| **UN-No** | UN1210 |
| **Packing Group** | II |
| **Description** | UN1210, PRINTING INK, 3, PG II |

**MEX**

| | |
|---|---|
| **Proper Shipping Name** | Printing ink |
| **Hazard Class** | 3 |
| **UN-No** | UN1210 |
| **Packing Group** | II |
| **Description** | UN1210, Printing ink, 3, II |

**ICAO**

| | |
|---|---|
| **UN-No** | UN1210 |
| **Proper Shipping Name** | Printing ink |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Description** | UN1210, Printing ink, 3, PG II |

**IATA**

| | |
|---|---|
| **UN-No** | UN1210 |
| **Proper Shipping Name** | Printing ink |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **ERG Code** | 3L |
| **Description** | UN1210, Printing ink, 3, PG II |

**IMDG/IMO**

| | |
|---|---|
| **Proper Shipping Name** | Printing ink |
| **Hazard Class** | 3 |
| **UN-No** | UN1210 |
| **Packing Group** | II |
| **EmS No.** | F-E, S-D |
| **Description** | UN1210, Printing ink, 3, PG II, FP 13C |

**RID**

| | |
|---|---|
| **Proper Shipping Name** | Printing ink |
| **Hazard Class** | 3 |
| **UN-No** | UN1210 |
| **Packing Group** | II |
| **Classification Code** | F1 |
| **Description** | UN1210, Printing ink, 3, II |
| **ADR/RID-Labels** | 3 |

**ADR**

| | |
|---|---|
| **Proper Shipping Name** | Printing ink |
| **Hazard Class** | 3 |
| **UN-No** | UN1210 |
| **Packing Group** | II |
| **Classification Code** | F1 |
| **Description** | UN1210, Printing ink, 3, II |

**ADN**

| | |
|---|---|
| **Proper Shipping Name** | Printing ink |

## 14. TRANSPORT INFORMATION

| | |
|---|---|
| **Hazard Class** | 3 |
| **UN-No** | UN1210 |
| **Packing Group** | II |
| **Classification Code** | F1 |
| **Special Provisions** | 163, 640C |
| **Description** | UN1210, Printing ink, 3, II |
| **Hazard Labels** | 3 |
| **Limited Quantity** | LQ6 |
| **Ventilation** | VE01 |

## 15. REGULATORY INFORMATION

### International Inventories

| | |
|---|---|
| **TSCA** | Not determined |
| **DSL** | Not determined |
| **EINECS** | Not determined |
| **ENCS** | Not determined |
| **IECSC** | Not determined |
| **KECL** | Not determined |
| **PICCS** | Not determined |
| **AICS** | Not determined |

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute Health Hazard** | Yes |
| **Chronic Health Hazard** | Yes |
| **Fire Hazard** | Yes |
| **Sudden Release of Pressure Hazard** | No |
| **Reactive Hazard** | No |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### U.S. State Regulations

**California Proposition 65**

This product contains the following Proposition 65 chemicals: Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

| Chemical Name | CAS-No | California Prop. 65 |
|---|---|---|
| Ethanol | 64-17-5 | Developmental |

### U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---|---|---|---|---|---|
| Ethanol | X | | | | X |
| Propanol | X | X | X | | X |
| Isopropyl alcohol | X | | | | |

## International Regulations

**Mexico - Grade** Severe risk, Grade 4

| Chemical Name | Carcinogen Status | Exposure Limits |
|---|---|---|
| Propanol | | Mexico: TWA= 200 ppm<br>Mexico: TWA= 500 mg/m$^3$<br>Mexico: STEL= 250 ppm<br>Mexico: STEL= 625 mg/m$^3$ |
| Isopropyl alcohol | | Mexico: TWA= 400 ppm<br>Mexico: TWA= 980 mg/m$^3$<br>Mexico: STEL= 1225 mg/m$^3$<br>Mexico: STEL= 500 ppm |

**Canada**

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.**

**WHMIS Hazard Class**
B2 Flammable liquid
D2A Very toxic materials

| Chemical Name | NPRI |
|---|---|
| Isopropyl alcohol | X |

**Legend**
NPRI - National Pollutant Release Inventory

## 16. OTHER INFORMATION

**Prepared By** Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

**Revision Date**

**Revision Note** Initial Release.

**General Disclaimer**
**The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.**

**End of Safety Data Sheet**

Safety Data Sheet:
**Material Name: Elmer's Glue-All**
**SDS ID: SDS-11**
Issue Date: 2016-06-02
Revision: 1.8

**Other Sections**
0102030405060708091011121314151 6

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**
Elmer's Glue-All
**Trade Names**
Elmer's Glue-All
**Synonyms**
US: E135; E371; E372; E375; E379; E381; E382; E383; E384; E385; E386; E393; E395; E477; E619; E960; E981; E1235; E1321; E1322; E1323; E1324; E1325; E1326; E1327; E1366; E1462; E1501; E3810; E3820; E3830; E3850; E3860; Canada: 60345; 60352; 60355; 60359; 60375; 60382; 60383; 60385; 60387; 60395; 65120; E3806
**Product Use**
adhesives
**Restrictions on Use**
None known.
**Details of the supplier of the safety data sheet**

Elmer's Product, Inc
460 Polaris Parkway, Suite 500
Westerville, OH 43082
USA

For additional product information, access our website at www.elmers.com. To place order, call 1-800-848-9400.
Phone: 1-888-435-6377
Emergency Phone #: 1-888-516-2502
E-mail: comments@elmers.com
Fax: 1-800-741-6046

## Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**
None needed according to classification criteria
**GHS Label Elements**
**Symbol(s)**
None needed according to classification criteria
**Signal Word**
None needed according to classification criteria
**Hazard Statement(s)**
None needed according to classification criteria.
**Precautionary Statement(s)**
**Prevention**
None needed according to classification criteria.
**Response**
None needed according to classification criteria.
**Storage**
None needed according to classification criteria.
**Disposal**
Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | Component Name | Percent |
|---|---|---|
| NA | Non-hazardous substance | 100 |

## Section 4 - FIRST AID MEASURES

**Inhalation**
If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.
**Skin**
If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.
**Eyes**
Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.
**Ingestion**
Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
**Most Important Symptoms/Effects**
**Acute**
No information on significant adverse effects.
**Delayed**
No information on significant adverse effects.

## Section 5 - FIRE FIGHTING MEASURES

**Extinguishing Media**
**Suitable Extinguishing Media**
carbon dioxide, regular dry chemical, regular foam, water
**Unsuitable Extinguishing Media**
None known.
**Hazardous Combustion Products**
oxides of carbon
**Advice for firefighters**
Slight fire hazard.
**Fire Fighting Measures**
Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

## Section 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**
Wear personal protective clothing and equipment. See Section 8 for personal protection information.
**Methods and Materials for Containment and Cleaning Up**
Stop leak if possible without personal risk. Absorb with earth, sand or other non-combustible material and transfer to container. Collect spilled material in appropriate container for disposal.

## Section 7 - HANDLING AND STORAGE

**Precautions for Safe Handling**
Use only with adequate ventilation. Wash thoroughly after handling.
**Conditions for Safe Storage, Including any Incompatibilities**
None needed according to classification criteria.
Store in accordance with all current regulations and standards. See original container for storage recommendations. Keep separated from incompatible substances.
**Incompatible Materials**
oxidizing materials.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Component Exposure Limits**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.
**EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures**
There are no biological limit values for any of this product's components.
**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**
There are no biological limit values for any of this product's components.
**Engineering Controls**
Based on available information, additional ventilation is not required.
**Individual Protection Measures, such as Personal Protective Equipment**
**Eye/face protection**
Eye protection not required under normal conditions.
**Skin Protection**
Protective clothing is not required under normal conditions.
**Respiratory Protection**
No respirator is required under normal conditions of use.
**Glove Recommendations**
Protective gloves are not required under normal conditions.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Appearance** | white liquid | **Physical State** | Liquid |
| **Odor** | mild odor | **Color** | white |
| **Odor Threshold** | Not available | **pH** | 4.8 - 5.1 |
| **Melting Point** | Not available | **Boiling Point** | 100 °C |
| **Freezing point** | 0 °C | **Evaporation Rate** | Not available |
| **Boiling Point Range** | Not available | **Flammability (solid, gas)** | Not flammable |
| **Autoignition** | Not available | **Flash Point** | Not available |
| **Lower Explosive Limit** | Not available | **Decomposition temperature** | Not available |
| **Upper Explosive Limit** | Not available | **Vapor Pressure** | Not available |
| **Vapor Density (air=1)** | Not available | **Specific Gravity (water=1)** | 1.04 - 1.07 |
| **Water Solubility** | dispersible | **Partition coefficient: n-octanol/water** | Not available |
| **Viscosity** | Not available | **Solubility (Other)** | Not available |
| **Density** | 8.7 - 8.9 g/cc | **Physical Form** | liquid |
| **Molecular Weight** | Not available | | |

## Section 10 - STABILITY AND REACTIVITY

**Reactivity**
No hazard expected.
**Chemical Stability**
Stable at normal temperatures and pressure.
**Possibility of Hazardous Reactions**
Will not polymerize.
**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**Incompatible Materials**

strong oxidizing materials.

**Hazardous decomposition products**

**Combustion**

oxides of carbon

## Section 11 - TOXICOLOGICAL INFORMATION

**Information on Likely Routes of Exposure**

**Inhalation**

No information on significant adverse effects.

**Skin Contact**

No information on significant adverse effects.

**Eye Contact**

No information on significant adverse effects.

**Ingestion**

No information on significant adverse effects.

**Acute and Chronic Toxicity**

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and no selected endpoints have been identified

**Immediate Effects**

No information on significant adverse effects.

**Delayed Effects**

No information on significant adverse effects.

**Irritation/Corrosivity Data**

No information on significant adverse effects.

**Respiratory Sensitization**

No information available for the product.

**Dermal Sensitization**

No information available for the product.

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

**Germ Cell Mutagenicity**

No information available for the product.

**Tumorigenic Data**

No data available

**Reproductive Toxicity**

No information available for the product.

**Specific Target Organ Toxicity - Single Exposure**

No target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

No data available.

**Medical Conditions Aggravated by Exposure**

No data available.

## Section 12 - ECOLOGICAL INFORMATION

**Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Biodegradation**

No information available for the product.

## Section 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods**
Dispose in accordance with all applicable regulations.
**Component Waste Numbers**
The U.S. EPA has not published waste numbers for this product's components

## Section 14 - TRANSPORT INFORMATION

US DOT Information:
**UN/NA #:** Not regulated.

TDG Information:
**UN#:** Not regulated.

## Section 15 - REGULATORY INFORMATION

**U.S. Federal Regulations**
None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.
**SARA Section 311/312 (40 CFR 370 Subparts B and C)**
**Acute Health:** No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No
**U.S. State Regulations**
None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA
**Not listed under California Proposition 65**
**Canadian WHMIS Ingredient Disclosure List (IDL)**
The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.
**WHMIS Classification**
Not a Controlled Product under Canada's Workplace Hazardous Material Information System
**Component Analysis - Inventory**
No information is available.
**U.S. Inventory (TSCA)**
All the components of this substance are listed on or are exempt from the inventory.

## Section 16 - OTHER INFORMATION

**NFPA Ratings**
Health: 1 Fire: 1 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
**Summary of Changes**
New SDS: 08/29/2014
**Key / Legend**
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory; KECL – Korea Existing Chemicals List; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery

Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act,; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

**Other Information**

**Disclaimer:**

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.