



# SAFETY DATA SHEET

## Section 1. Identification

**Product name** : Superflow Medium Hardener  
**Product code** : 8475  
**Other means of identification** : Not available.  
**Product type** : Liquid.  
**Relevant identified uses of the substance or mixture and uses advised against**  
Paint or paint related material.

**Manufacturer** : Autokote Systems, LLC  
121 Business Circle  
Thomasville, GA 31792

**Emergency telephone number of the company** : (800) 424-9300

**Product Information Telephone Number** : 1-800-801-5913

**Regulatory Information Telephone Number** : (216) 566-2902

**Transportation Emergency Telephone Number** : (800) 424-9300

## 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 LIQUIDS - Category 3  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
RESPIRATORY SENSITIZATION - Category 1  
SKIN SENSITIZATION - Category 1  
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  
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 21.8% (oral), 21.8% (dermal), 21.8% (inhalation)

### GHS label elements

**Hazard pictograms**



**Signal word** : Danger

## Section 2. Hazards identification

- Hazard statements** : Flammable liquid and vapor.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.
- Precautionary statements**
- Prevention** : Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
- Response** : Get medical advice or attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or 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 advice or attention.
- Storage** : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- 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 chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR PROFESSIONAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR/PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. If you have any breathing problems during use, LEAVE THE AREA and get fresh air. If problems remain or happen later, IMMEDIATELY call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst.
- Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
- 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 |
|------------------------------------|-------------|------------|
| n-Butyl Acetate                    | ≥25 - ≤50   | 123-86-4   |
| Hexamethylene Diisocyanate Polymer | ≥25 - ≤43   | 28182-81-2 |
| Isophorone Diisocyanate Polymer    | ≥10 - ≤25   | 53880-05-0 |
| Light Aromatic Hydrocarbons        | ≤10         | 64742-95-6 |
| trimethylbenzene                   | <1          | 25551-13-7 |
| 1,3,5-Trimethylbenzene             | ≤0.3        | 108-67-8   |
| 1,2,4-Trimethylbenzene             | ≤0.3        | 95-63-6    |
| Isophorone Diisocyanate (max.)     | ≤0.3        | 4098-71-9  |

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. In the event of any complaints or symptoms, avoid further exposure.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : 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. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. 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

## Section 4. First aid measures

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

### 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  
wheezing and breathing difficulties  
asthma  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Flammable liquid and vapor. 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. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.





## Section 8. Exposure controls/personal protection

|  |  |   |
|--|--|---|
|  |  | <p>TWA: 0.005 ppm 10 hours.<br/> TWA: 0.045 mg/m<sup>3</sup> 10 hours.<br/> STEL: 0.02 ppm 15 minutes.<br/> STEL: 0.18 mg/m<sup>3</sup> 15 minutes.<br/> <b>OSHA PEL (United States, 5/2018).</b><br/> <b>Absorbed through skin.</b><br/> TWA: 5 mg/m<sup>3</sup>, (as CN) 8 hours.</p> |
|--|--|---|

**Occupational exposure limits (Canada)**

| Ingredient name         | CAS #     | Exposure limits   |
|-------------------------|-----------|---|
| n-butyl acetate         | 123-86-4  | <p><b>CA Alberta Provincial (Canada, 6/2018).</b><br/> 15 min OEL: 200 ppm 15 minutes.<br/> 15 min OEL: 950 mg/m<sup>3</sup> 15 minutes.<br/> 8 hrs OEL: 150 ppm 8 hours.<br/> 8 hrs OEL: 713 mg/m<sup>3</sup> 8 hours.</p> <p><b>CA British Columbia Provincial (Canada, 1/2020).</b><br/> TWA: 20 ppm 8 hours.</p> <p><b>CA Quebec Provincial (Canada, 7/2019).</b><br/> TWAEV: 150 ppm 8 hours.<br/> TWAEV: 713 mg/m<sup>3</sup> 8 hours.<br/> STEV: 200 ppm 15 minutes.<br/> STEV: 950 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b><br/> STEL: 200 ppm 15 minutes.<br/> TWA: 150 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 6/2019).</b><br/> STEL: 150 ppm 15 minutes.<br/> TWA: 50 ppm 8 hours.</p> |
| Isophorone diisocyanate | 4098-71-9 | <p><b>CA Alberta Provincial (Canada, 6/2018).</b><br/> 8 hrs OEL: 0.05 mg/m<sup>3</sup> 8 hours.<br/> 8 hrs OEL: 0.005 ppm 8 hours.</p> <p><b>CA British Columbia Provincial (Canada, 1/2020). Inhalation sensitizer.</b><br/> TWA: 0.005 ppm 8 hours.<br/> C: 0.01 ppm</p> <p><b>CA Quebec Provincial (Canada, 7/2019). Skin sensitizer.</b><br/> TWAEV: 0.005 ppm 8 hours.<br/> TWAEV: 0.045 mg/m<sup>3</sup> 8 hours.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b><br/> STEL: 0.015 ppm 15 minutes.<br/> TWA: 0.005 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 6/2019).</b><br/> Ceiling Limit: 0.02 ppm<br/> TWA: 0.005 ppm 8 hours.</p>   |

**Occupational exposure limits (Mexico)**

|                 | CAS #    | Exposure limits   |
|-----------------|----------|---|
| n-Butyl Acetate | 123-86-4 | <p><b>NOM-010-STPS-2014 (Mexico, 4/2016).</b><br/> TWA: 150 ppm 8 hours.<br/> STEL: 200 ppm 15 minutes.</p> |

## Section 8. Exposure controls/personal protection

- 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eyeface 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 applicable.
- Melting point/freezing point** : Not available.
- Boiling point/boiling range** : 123°C (253.4°F)
- Flash point** : Closed cup: 25°C (77°F) [Pensky-Martens Closed Cup]
- Evaporation rate** : 1 (butyl acetate = 1)
- Flammability (solid, gas)** : Not available.

## Section 9. Physical and chemical properties

- Lower and upper explosive (flammable) limits** : Lower: 0.7%  
Upper: 7.6%
- Vapor pressure** : 1.3 kPa (10 mm Hg) [at 20°C]
- Vapor density** : 4 [Air = 1]
- Relative density** : 1.01
- 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<sup>2</sup>/s (>20.5 cSt)
- Molecular weight** : Not applicable.
- Aerosol product**
- Heat of combustion** : 14.137 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). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
- Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials
- 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 |
|------------------------------------|---------------------------------|---------|-------------------------|----------|
| n-Butyl Acetate                    | LD50 Dermal                     | Rabbit  | >17600 mg/kg            | -        |
|                                    | LD50 Oral                       | Rat     | 10768 mg/kg             | -        |
| Hexamethylene Diisocyanate Polymer | LC50 Inhalation Vapor           | Rat     | 18500 mg/m <sup>3</sup> | 1 hours  |
| Light Aromatic Hydrocarbons        | LD50 Oral                       | Rat     | 8400 mg/kg              | -        |
| trimethylbenzene                   | LD50 Oral                       | Rat     | 8970 mg/kg              | -        |
| 1,3,5-Trimethylbenzene             | LC50 Inhalation Vapor           | Rat     | 24000 mg/m <sup>3</sup> | 4 hours  |
|                                    | LD50 Oral                       | Rat     | 5000 mg/kg              | -        |
| 1,2,4-Trimethylbenzene             | LC50 Inhalation Vapor           | Rat     | 18000 mg/m <sup>3</sup> | 4 hours  |
|                                    | LD50 Oral                       | Rat     | 5 g/kg                  | -        |
| Isophorone Diisocyanate (max.)     | LC50 Inhalation Dusts and mists | Rat     | 123 mg/m <sup>3</sup>   | 4 hours  |
|                                    | LD50 Oral                       | Rat     | 4825 mg/kg              | -        |

# Section 11. Toxicological information

## Irritation/Corrosion

| Product/ingredient name            | Result                   | Species | Score | Exposure        | Observation |
|------------------------------------|--------------------------|---------|-------|-----------------|-------------|
| n-Butyl Acetate                    | Eyes - Moderate irritant | Rabbit  | -     | 100 mg          | -           |
|                                    | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
| Hexamethylene Diisocyanate Polymer | Eyes - Moderate irritant | Rabbit  | -     | 100 milligrams  | -           |
|                                    | Skin - Moderate irritant | Rabbit  | -     | 500 milligrams  | -           |
| Light Aromatic Hydrocarbons        | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 100 uL | -           |
| trimethylbenzene                   | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 mg | -           |
|                                    | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
| 1,3,5-Trimethylbenzene             | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500 mg | -           |
|                                    | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg  | -           |

## 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                |
|------------------------------------|------------|-------------------|------------------------------|
| n-Butyl Acetate                    | Category 3 | -                 | Narcotic effects             |
| Hexamethylene Diisocyanate Polymer | Category 3 | -                 | Respiratory tract irritation |
| Isophorone Diisocyanate Polymer    | Category 3 | -                 | Respiratory tract irritation |
| Light Aromatic Hydrocarbons        | Category 3 | -                 | Respiratory tract irritation |
| 1,3,5-Trimethylbenzene             | Category 3 | -                 | Narcotic effects             |
|                                    | Category 3 | -                 | Respiratory tract irritation |
| 1,2,4-Trimethylbenzene             | Category 3 | -                 | Respiratory tract irritation |
| Isophorone Diisocyanate (max.)     | Category 3 | -                 | Respiratory tract irritation |

## Specific target organ toxicity (repeated exposure)

# Section 11. Toxicological information

| Name                        | Category   | Route of exposure | Target organs |
|-----------------------------|------------|-------------------|---------------|
| Light Aromatic Hydrocarbons | Category 2 | -                 | -             |

**Aspiration hazard**

| Name                        | Result                         |
|-----------------------------|--------------------------------|
| Light Aromatic Hydrocarbons | ASPIRATION HAZARD - Category 1 |
| trimethylbenzene            | ASPIRATION HAZARD - Category 1 |
| 1,3,5-Trimethylbenzene      | ASPIRATION HAZARD - Category 1 |
| 1,2,4-Trimethylbenzene      | 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. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

**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  
 wheezing and breathing difficulties  
 asthma  
 nausea or vomiting  
 headache  
 drowsiness/fatigue  
 dizziness/vertigo  
 unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness
- Ingestion** : No specific data.

**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**

## Section 11. Toxicological information

Not available.

- General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- 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 (vapors) | 27.28 mg/l |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                             | Species                                      | Exposure |
|-------------------------|------------------------------------|--|----------|
| n-Butyl Acetate         | Acute LC50 32 mg/l Marine water    | Crustaceans - Artemia salina                 | 48 hours |
| trimethylbenzene        | Acute LC50 18000 µg/l Fresh water  | Fish - Pimephales promelas                   | 96 hours |
|                         | Acute LC50 5600 µg/l Marine water  | Crustaceans - Palaemonetes pugio             | 48 hours |
| 1,3,5-Trimethylbenzene  | Acute LC50 13000 µg/l Marine water | Crustaceans - Cancer magister - Zoea         | 48 hours |
|                         | Acute LC50 12520 µg/l Fresh water  | Fish - Carassius auratus                     | 96 hours |
| 1,2,4-Trimethylbenzene  | Chronic NOEC 400 µg/l Fresh water  | Daphnia - Daphnia magna                      | 21 days  |
|                         | Acute LC50 4910 µg/l Marine water  | Crustaceans - Elasmopus pecteniscrus - Adult | 48 hours |
|                         | Acute LC50 7720 µg/l Fresh water   | Fish - Pimephales promelas                   | 96 hours |

### Persistence and degradability

| Product/ingredient name     | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------|-------------------|------------|------------------|
| n-Butyl Acetate             | -                 | -          | Readily          |
| Light Aromatic Hydrocarbons | -                 | -          | Readily          |

### Bioaccumulative potential

| Product/ingredient name     | LogP <sub>ow</sub> | BCF        | Potential |
|-----------------------------|--------------------|------------|-----------|
| Light Aromatic Hydrocarbons | -                  | 10 to 2500 | high      |
| 1,3,5-Trimethylbenzene      | -                  | 161        | low       |
| 1,2,4-Trimethylbenzene      | -                  | 243        | low       |

### Mobility in soil

- Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.






## Section 12. Ecological information

**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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                                   | <b>DOT<br/>Classification</b>  | <b>TDG<br/>Classification</b>  | <b>Mexico<br/>Classification</b>   | <b>IATA</b>  | <b>IMDG</b>  |
|-----------------------------------|--|--|--|--|--|
| <b>UN number</b>                  | UN1263   | UN1263   | UN1263   | UN1263   | UN1263   |
| <b>UN proper shipping name</b>    | PAINT RELATED MATERIAL   | PAINT RELATED MATERIAL   | PAINT RELATED MATERIAL   | PAINT RELATED MATERIAL   | PAINT RELATED MATERIAL   |
| <b>Transport hazard class(es)</b> | 3<br> | 3<br>   | 3<br> | 3<br> | 3<br> |
| <b>Packing group</b>              | III  | III  | III  | III  | III  |
| <b>Environmental hazards</b>      | No.  | No.  | No.  | No.  | No.  |
| <b>Additional information</b>     | -<br><br><b>ERG No.</b><br>128   | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).<br><br><b>ERG No.</b><br>128 | -<br><br><b>ERG No.</b><br>128   | -  | <b>Emergency schedules</b> F-E, S-E  |

## Section 14. Transport information

**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 IMO instruments** : Not available.

**Proper shipping name** : 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 chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### International regulations

#### **International lists**

: **Australia inventory (AIIIC)**: Not determined.  
**China inventory (IECSC)**: Not determined.  
**Japan inventory (CSCL)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**Korea inventory (KECI)**: Not determined.  
**New Zealand Inventory of Chemicals (NZIoC)**: Not determined.  
**Philippines inventory (PICCS)**: Not determined.  
**Taiwan Chemical Substances Inventory (TCSI)**: Not determined.  
**Thailand inventory**: Not determined.  
**Turkey inventory**: Not determined.  
**Vietnam inventory**: Not determined.

## Section 16. Other information

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

|                  |   |   |
|------------------|---|---|
| Health           | * | 3 |
| Flammability     |   | 3 |
| Physical hazards |   | 0 |

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 LIQUIDS - Category 3   | On basis of test data |
| SKIN CORROSION/IRRITATION - Category 2   | Calculation method    |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A   | Calculation method    |
| RESPIRATORY SENSITIZATION - Category 1   | Calculation method    |
| SKIN SENSITIZATION - Category 1  | 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    |

### History

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**Version** 3

#### **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)  
N/A = Not available  
SGG = Segregation Group  
UN = United Nations

Indicates information that has changed from previously issued version.

### 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 the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. 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.

