

# SAFETY DATA SHEET

## Section 1. Identification

GHS product identifier :  
 Document product code :  
 Other means of identification : Not available.  
 Product type : Liquid.

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

Identified uses :

Supplier/Manufacturer :

Emergency telephone number (with hours of operation) :

## 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 2  
 SKIN CORROSION/IRRITATION - Category 2  
 SKIN SENSITIZATION - Category 1  
 CARCINOGENICITY - Category 1A  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) - Category 1

### GHS label elements

Hazard pictograms :



Signal word : Danger

## Section 2. Hazards identification

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard statements</b>                | : H225 - Highly flammable liquid and vapor.<br>H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H350 - May cause cancer.<br>H335 - May cause respiratory irritation.<br>H372 - Causes damage to organs through prolonged or repeated exposure. (respiratory tract)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Precautionary statements</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Prevention</b>                       | : P201 - Obtain special instructions before use.<br>P202 - Do not handle until all safety precautions have been read and understood.<br>P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.<br>P242 - Use only non-sparking tools.<br>P243 - Take precautionary measures against static discharge.<br>P233 - Keep container tightly closed.<br>P271 - Use only outdoors or in a well-ventilated area.<br>P260 - Do not breathe vapor.<br>P270 - Do not eat, drink or smoke when using this product.<br>P264 - Wash hands thoroughly after handling.<br>P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace. |
| <b>Response</b>                         | : P314 - Get medical attention if you feel unwell.<br>P308 + P313 - IF exposed or concerned: Get medical attention.<br>P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.<br>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.<br>P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.<br>P333 + P313 - If skin irritation or rash occurs: Get medical attention.                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>                          | : P405 - Store locked up.<br>P403 - Store in a well-ventilated place.<br>P235 - Keep cool.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Disposal</b>                         | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Hazards not otherwise classified</b> | : None known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Section 3. Composition/information on ingredients

|                                      |                  |
|--------------------------------------|------------------|
| <b>Substance/mixture</b>             | : Mixture        |
| <b>Other means of identification</b> | : Not available. |

| <b>Ingredient name</b>                | <b>%</b>  | <b>CAS number</b> |
|---------------------------------------|-----------|-------------------|
| Crystalline silica, respirable powder | ≥50 - ≤75 | 14808-60-7        |
| Methyl methacrylate                   | ≥10 - ≤25 | 80-62-6           |
| 2-Ethylhexyl acrylate                 | ≥5 - ≤10  | 103-11-7          |
| N-methyl-2-pyrrolidone                | ≤0.3      | 872-50-4          |

Since the carcinogenic ingredients in this compound are encapsulated, the risk of exposure by inhalation is minimum when used in accordance with the user documentation.



## Section 3. Composition/information on ingredients

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

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 or the environment 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 20 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.
- Skin contact** : Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 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. 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** : No known significant effects or critical hazards.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

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



## Section 4. First aid measures

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

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**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 or water-based fire extinguishers.

**Specific hazards arising from the chemical** : Highly 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.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
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. 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".



## Section 6. Accidental release measures

**Environmental precautions** : 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

**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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**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. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. 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

#### United States

##### Occupational exposure limits

| Ingredient name                                 | Exposure limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crystalline silica, respirable powder           | <b>OSHA PEL Z3 (United States, 6/2016).</b><br>TWA: 250 mppcf / (%SiO <sub>2</sub> +5) 8 hours. Form: Respirable<br>TWA: 10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2) 8 hours. Form: Respirable<br><b>NIOSH REL (United States, 10/2016).</b><br>TWA: 0.05 mg/m <sup>3</sup> 10 hours. Form: Respirable dust<br><b>OSHA PEL (United States, 6/2016).</b><br>TWA: 50 µg/m <sup>3</sup> 8 hours. Form: Respirable dust<br><b>ACGIH TLV (United States, 3/2017).</b><br>TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction<br><b>ACGIH TLV (United States, 3/2017). Skin sensitizer.</b><br>TWA: 50 ppm 8 hours.<br>STEL: 100 ppm 15 minutes.<br><b>NIOSH REL (United States, 10/2016).</b><br>TWA: 100 ppm 10 hours.<br>TWA: 410 mg/m <sup>3</sup> 10 hours.<br><b>OSHA PEL (United States, 6/2016).</b><br>TWA: 100 ppm 8 hours.<br>TWA: 410 mg/m <sup>3</sup> 8 hours.<br>None.<br><b>AIHA WEEL (United States, 10/2011). Absorbed through skin.</b><br>TWA: 10 ppm 8 hours. |
| Methyl methacrylate                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2-Ethylhexyl acrylate<br>N-methyl-2-pyrrolidone |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

#### Canada

##### Occupational exposure limits

| Ingredient name                       | Exposure limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crystalline silica, respirable powder | <b>CA British Columbia Provincial (Canada, 7/2016).</b><br>TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable<br><b>CA Quebec Provincial (Canada, 1/2014).</b><br>TWAEV: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust<br><b>CA Ontario Provincial (Canada, 7/2015).</b><br>TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction<br><b>CA Saskatchewan Provincial (Canada, 7/2013).</b><br>TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction<br><b>CA Alberta Provincial (Canada, 4/2009).</b><br>8 hrs OEL: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable particulate.<br><b>CA Alberta Provincial (Canada, 4/2009).</b><br>8 hrs OEL: 205 mg/m <sup>3</sup> 8 hours.<br>8 hrs OEL: 50 ppm 8 hours.<br>15 min OEL: 410 mg/m <sup>3</sup> 15 minutes.<br>15 min OEL: 100 ppm 15 minutes.<br><b>CA British Columbia Provincial (Canada, 7/2016). Skin sensitizer.</b><br>TWA: 50 ppm 8 hours.<br>STEL: 100 ppm 15 minutes.<br><b>CA Ontario Provincial (Canada, 7/2015). Skin sensitizer.</b><br>TWA: 50 ppm 8 hours.<br>STEL: 100 ppm 15 minutes.<br><b>CA Quebec Provincial (Canada, 1/2014). Skin sensitizer.</b><br>TWAEV: 50 ppm 8 hours.<br>TWAEV: 205 mg/m <sup>3</sup> 8 hours.<br><b>CA Saskatchewan Provincial (Canada, 7/2013). Skin sensitizer.</b><br>STEL: 100 ppm 15 minutes.<br>TWA: 50 ppm 8 hours.<br><b>CA Ontario Provincial (Canada, 7/2015).</b><br>TWA: 400 mg/m <sup>3</sup> 8 hours. |
| Methyl methacrylate                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| N-methyl-2-pyrrolidone                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

### 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.

## Section 8. Exposure controls/personal protection

### 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.
- 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** : Clear.
- Odor** : Solvent. [Strong]
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Closed cup: 2°C (35.6°F) [Pensky-Martens.]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : >1 [Air = 1]
- Relative density** : 1.64



## Section 9. Physical and chemical properties

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| <b>Solubility</b>                             | : Insoluble in water.                              |
| <b>Partition coefficient: n-octanol/water</b> | : Not available.                                   |
| <b>Auto-ignition temperature</b>              | : 230°C (446°F)                                    |
| <b>Decomposition temperature</b>              | : Not available.                                   |
| <b>Viscosity</b>                              | : Dynamic (room temperature): 1500 mPa·s (1500 cP) |
| <b>Flow time (ISO 2431)</b>                   | : Not available.                                   |
| <b>VOC = Volatile Organic Compound</b>        | :                                                  |

## Section 10. Stability and reactivity

|                                           |                                                                                                                                                                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : Direct sun exposure or storage at temperatures above 60 °C or 140 °F may produce uncontrolled and exothermic polymerization.                                                                                                       |
| <b>Chemical stability</b>                 | : The product is stable.                                                                                                                                                                                                             |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                                                                                    |
| <b>Conditions to avoid</b>                | : 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. |
| <b>Incompatible materials</b>             | : Strong acids, strong oxidizing agents and reducing agents, bases and halogenated compounds.                                                                                                                                        |
| <b>Hazardous decomposition products</b>   | : During a fire, irritating and toxic gases, such as carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbon derivatives and black smoke.                                                                                      |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                | Species | Dose                    | Exposure |
|-------------------------|-----------------------|---------|-------------------------|----------|
| Methyl methacrylate     | LC50 Inhalation Vapor | Rat     | 78000 mg/m <sup>3</sup> | 4 hours  |
|                         | LD50 Dermal           | Rabbit  | >5 g/kg                 | -        |
|                         | LD50 Oral             | Rat     | 7872 mg/kg              | -        |
| 2-Ethylhexyl acrylate   | LD50 Oral             | Rat     | 6700 mg/kg              | -        |
| N-methyl-2-pyrrolidone  | LD50 Dermal           | Rabbit  | 8 g/kg                  | -        |
|                         | LD50 Oral             | Rat     | 3914 mg/kg              | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure       | Observation |
|-------------------------|--------------------------|---------|-------|----------------|-------------|
| 2-Ethylhexyl acrylate   | Skin - Mild irritant     | Rabbit  | -     | 500 mg         | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg | -           |
|                         | Skin - Severe irritant   | Rabbit  | -     | 24 hours 10 mg | -           |
| N-methyl-2-pyrrolidone  | Eyes - Moderate irritant | Rabbit  | -     | 100 mg         | -           |

#### Sensitization

There is no data available.

#### Mutagenicity

There is no data available.



## Section 11. Toxicological information

### Carcinogenicity

#### Classification

| Product/ingredient name               | OSHA | IARC | NTP                             |
|---------------------------------------|------|------|---------------------------------|
| Crystalline silica, respirable powder | -    | 1    | Known to be a human carcinogen. |
| Methyl methacrylate                   | -    | 3    | -                               |
| 2-Ethylhexyl acrylate                 | -    | 3    | -                               |

### Reproductive toxicity

There is no data available.

### Teratogenicity

There is no data available.

### Specific target organ toxicity (single exposure)

| Name                   | Category   | Target organs                |
|------------------------|------------|------------------------------|
| Methyl methacrylate    | Category 3 | Respiratory tract irritation |
| 2-Ethylhexyl acrylate  | Category 3 | Respiratory tract irritation |
| N-methyl-2-pyrrolidone | Category 3 | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

| Name                                  | Category   | Target organs     |
|---------------------------------------|------------|-------------------|
| Crystalline silica, respirable powder | Category 1 | respiratory tract |

### Aspiration hazard

There is no data available.

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : May cause respiratory irritation.  
**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : No known significant effects or critical hazards.

### 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  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
**Ingestion** : No known significant effects or critical hazards.

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

#### Short term exposure

**Potential immediate effects** : No known significant effects or critical hazards.  
**Potential delayed effects** : No known significant effects or critical hazards.

## Section 11. Toxicological information

### Long term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

### Potential chronic health effects

**General** : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**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

There is no data available.

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                             | Species                            | Exposure |
|-------------------------|------------------------------------|------------------------------------|----------|
| Methyl methacrylate     | Acute LC50 130000 µg/L Fresh water | Fish - Pimephales promelas - Adult | 96 hours |

### Persistence and degradability

There is no data available.

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| Methyl methacrylate     | 1.38               | -   | low       |
| 2-Ethylhexyl acrylate   | 4.64               | -   | high      |
| N-methyl-2-pyrrolidone  | -0.46              | -   | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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 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



## Section 13. Disposal considerations

should be taken when handling empty 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.

### United States - RCRA Toxic hazardous waste "U" List

| Ingredient          | CAS #   | Status | Reference number |
|---------------------|---------|--------|------------------|
| Methyl methacrylate | 80-62-6 | Listed | U162             |

## Section 14. Transport information

|                            | DOT Classification                                                                      | TDG Classification                                                                      | IMDG                                                                                     | IATA                                                                                      |
|----------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| UN number                  | UN1263                                                                                  | UN1263                                                                                  | UN1263                                                                                   | UN1263                                                                                    |
| UN proper shipping name    | PAINT                                                                                   | PAINT                                                                                   | PAINT                                                                                    | PAINT                                                                                     |
| Transport hazard class(es) | 3<br> | 3<br> | 3<br> | 3<br> |
| Packing group              | II                                                                                      | II                                                                                      | II                                                                                       | II                                                                                        |
| Environmental hazards      | No.                                                                                     | No.                                                                                     | No.                                                                                      | No.                                                                                       |

**AERG : 128**

**DOT-RQ Details** : Methyl methacrylate 1000 lbs / 454 kg [127.59 gal / 482.98 L]

### Additional information

**DOT Classification** : **Reportable quantity** 6267.4 lbs / 2845.4 kg [458.34 gal / 1735 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**Special provisions** 383

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

**IMDG** : **Emergency schedules** F-E, S-E

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.



## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) PAIR: 2-Methoxy-1-methylethyl acetate  
TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
United States inventory (TSCA 8b): Not determined.  
Clean Water Act (CWA) 307: Ethylbenzene; Toluene; Benzene  
Clean Water Act (CWA) 311: Ethylbenzene; n-Butyl acetate; Xylene; Toluene; Benzene; Methyl methacrylate

Clean Air Act Section 112 : Listed  
(b) Hazardous Air Pollutants (HAPs)  
Clean Air Act Section 602 : Not listed  
Class I Substances  
Clean Air Act Section 602 : Not listed  
Class II Substances  
DEA List I Chemicals : Not listed  
(Precursor Chemicals)  
DEA List II Chemicals : Not listed  
(Essential Chemicals)

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : FLAMMABLE LIQUIDS - Category 2  
SKIN CORROSION/IRRITATION - Category 2  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 1A  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) - Category 1

#### Composition/information on ingredients

| Name                                  | Classification                                                                                                                                                                                                                                                                     |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crystalline silica, respirable powder | CARCINOGENICITY - Category 1A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) (inhalation) - Category 1                                                                               |
| Methyl methacrylate                   | FLAMMABLE LIQUIDS - Category 2<br>SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITIZATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3                                                                        |
| 2-Ethylhexyl acrylate                 | FLAMMABLE LIQUIDS - Category 4<br>SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITIZATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3                                                                        |
| N-methyl-2-pyrrolidone                | FLAMMABLE LIQUIDS - Category 4<br>SKIN CORROSION/IRRITATION - Category 2<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A<br>TOXIC TO REPRODUCTION (Unborn child) - Category 1B<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |



## Section 15. Regulatory information

### SARA 313

|                                 | Product name        | CAS number |
|---------------------------------|---------------------|------------|
| Form R - Reporting requirements | Methyl methacrylate | 80-62-6    |
| Supplier notification           | Methyl methacrylate | 80-62-6    |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: Crystalline silica, respirable powder; Paraffin waxes and Hydrocarbon waxes; 2-Ethylhexyl acrylate; Methyl methacrylate
- New York** : The following components are listed: Methyl methacrylate
- New Jersey** : The following components are listed: Crystalline silica, respirable powder; Paraffin waxes and Hydrocarbon waxes; 2-Ethylhexyl acrylate; Methyl methacrylate
- Pennsylvania** : The following components are listed: Crystalline silica, respirable powder; Paraffin waxes and Hydrocarbon waxes; 2-Ethylhexyl acrylate; Methyl methacrylate

### California Prop. 65

**⚠ WARNING:** This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Crystalline silica, respirable powder, Titanium dioxide, Ethylbenzene, which are known to the State of California to cause cancer, and N-methyl-2-pyrrolidone, Toluene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Since the carcinogenic ingredients in this compound are encapsulated, the risk of exposure by inhalation is minimum when used in accordance with the user documentation.**

### Canada

#### Canadian lists

- Canadian NPRI** : The following components are listed: Methyl methacrylate
- CEPA Toxic substances** : None of the components are listed.
- Canada inventory (DSL NDSL)** : Not determined.

## Section 16. Other information

### Procedure used to derive the classification

| Classification                                                                                                                                                                                                                                                                                                                      | Justification                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| FLAMMABLE LIQUIDS - Category 2<br>SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITIZATION - Category 1<br>CARCINOGENICITY - Category 1A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) - Category 1 | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

### History

- Date of issue mm/dd/yyyy** : 06/15/2018
- Date of previous issue** : 04/15/2018
- Version** : 1.1
- Prepared by** : KMK Regulatory Services Inc.

## Section 16. Other information

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

