

# SAFETY DATA SHEET

5414

## Section 1. Identification

**Product name** : 5 STAR XTREME DTM Metal Etch Primer  
**Product code** : 5414  
**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** : Manufactured for:  
ABI / Autobody Brands International  
A Division of IAMG / International Autobody Marketing Group  
Scottsdale, AZ 85257

**Emergency telephone number of the company** : (216) 566-2917

**Product Information Telephone Number** : 1-87-REFINISH

**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 2  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 1B  
TOXIC TO REPRODUCTION (Unborn child) - Category 1B  
TOXIC TO REPRODUCTION (Fertility) - Category 2  
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) (lungs) - Category 1  
ASPIRATION HAZARD - Category 1  
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 10.3%  
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 38.6%  
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 31.7%

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Date of issue/Date of revision** : 1/21/2019 **Date of previous issue** : 11/13/2018

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**Version** : 13 1/21

SHW-85-NA-GHS-US

## Section 2. Hazards identification

**Hazard statements** : Highly flammable liquid and vapor.  
Causes serious eye damage.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause cancer.  
May damage the unborn child.  
Suspected of damaging fertility.  
May be fatal if swallowed and enters airways.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Causes damage to organs through prolonged or repeated exposure. (lungs)

### Precautionary statements

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

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

**Storage** : Store locked up. Store in a well-ventilated place. 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.  
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**

## Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
Methyl Isobutyl Ketone	≥10 - ≤24	108-10-1
2-Propanol	≥10 - ≤25	67-63-0
Xylene mixed isomers	≤10	1330-20-7
Talc	≤10	14807-96-6
2-Butoxyethanol	≤8.3	111-76-2
Titanium Dioxide, Rutile	≤10	1317-80-2
Epoxy Polymer	≤5	25068-38-6
Magnesium Carbonate	≤5	546-93-0
Dibutyl Phthalate	≤5	84-74-2
2-Methyl-1-propanol	≤4.6	78-83-1
Cellulose Nitrate	≤5	9004-70-0
Toluene	≤3	108-88-3
Ethylbenzene	≤1.8	100-41-4
Isopropyl Acetate	≤3	108-21-4
Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine	≤0.3	85711-47-3
Unsaturated Fatty Acids	≤0.3	-
Carbon Black	≤0.3	1333-86-4

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** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. 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. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a 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

## Section 4. First aid measures

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
stomach pains  
nausea or vomiting  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### 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.

## Section 5. Fire-fighting measures

- 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  
nitrogen oxides  
phosphorus oxides  
halogenated compounds  
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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

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

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). 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. Avoid exposure during pregnancy. 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 swallow. 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store 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

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

Ingredient name	Exposure limits
Methyl Isobutyl Ketone	<p><b>ACGIH TLV (United States, 3/2018).</b> TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes.</p> <p><b>NIOSH REL (United States, 10/2016).</b> TWA: 50 ppm 10 hours. TWA: 205 mg/m<sup>3</sup> 10 hours. STEL: 75 ppm 15 minutes. STEL: 300 mg/m<sup>3</sup> 15 minutes.</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 100 ppm 8 hours. TWA: 410 mg/m<sup>3</sup> 8 hours.</p>
2-Propanol	<p><b>ACGIH TLV (United States, 3/2018).</b> TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.</p> <p><b>NIOSH REL (United States, 10/2016).</b> TWA: 400 ppm 10 hours. TWA: 980 mg/m<sup>3</sup> 10 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m<sup>3</sup> 15 minutes.</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 400 ppm 8 hours. TWA: 980 mg/m<sup>3</sup> 8 hours.</p>
Xylene mixed isomers	<p><b>ACGIH TLV (United States, 3/2018).</b> TWA: 100 ppm 8 hours. TWA: 434 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes.</p>



## Section 8. Exposure controls/personal protection

Talc	<p>STEL: 651 mg/m<sup>3</sup> 15 minutes.  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 100 ppm 8 hours.  TWA: 435 mg/m<sup>3</sup> 8 hours.  <b>NIOSH REL (United States, 10/2016).</b>  TWA: 2 mg/m<sup>3</sup> 10 hours. Form: Respirable fraction  <b>ACGIH TLV (United States, 3/2018).</b>  TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p>
2-Butoxyethanol	<p><b>ACGIH TLV (United States, 3/2018).</b>  TWA: 20 ppm 8 hours.  <b>NIOSH REL (United States, 10/2016).</b>  <b>Absorbed through skin.</b>  TWA: 5 ppm 10 hours.  TWA: 24 mg/m<sup>3</sup> 10 hours.  <b>OSHA PEL (United States, 5/2018).</b>  <b>Absorbed through skin.</b>  TWA: 50 ppm 8 hours.  TWA: 240 mg/m<sup>3</sup> 8 hours.</p>
Titanium Dioxide, Rutile Epoxy Polymer Magnesium Carbonate	<p>None.  None.  <b>NIOSH REL (United States, 10/2016).</b>  TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Respirable fraction  TWA: 10 mg/m<sup>3</sup> 10 hours. Form: Total  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction  TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p>
Dibutyl Phthalate	<p><b>ACGIH TLV (United States, 3/2018).</b>  TWA: 5 mg/m<sup>3</sup> 8 hours.  <b>NIOSH REL (United States, 10/2016).</b>  TWA: 5 mg/m<sup>3</sup> 10 hours.  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 5 mg/m<sup>3</sup> 8 hours.</p>
2-Methyl-1-propanol	<p><b>ACGIH TLV (United States, 3/2018).</b>  TWA: 50 ppm 8 hours.  TWA: 152 mg/m<sup>3</sup> 8 hours.  <b>NIOSH REL (United States, 10/2016).</b>  TWA: 50 ppm 10 hours.  TWA: 150 mg/m<sup>3</sup> 10 hours.  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 100 ppm 8 hours.  TWA: 300 mg/m<sup>3</sup> 8 hours.</p>
Cellulose Nitrate Toluene	<p>None.  <b>OSHA PEL Z2 (United States, 2/2013).</b>  TWA: 200 ppm 8 hours.  CEIL: 300 ppm  AMP: 500 ppm 10 minutes.  <b>NIOSH REL (United States, 10/2016).</b>  TWA: 100 ppm 10 hours.  TWA: 375 mg/m<sup>3</sup> 10 hours.  STEL: 150 ppm 15 minutes.  STEL: 560 mg/m<sup>3</sup> 15 minutes.  <b>ACGIH TLV (United States, 3/2018).</b>  TWA: 20 ppm 8 hours.</p>
Ethylbenzene	<p><b>ACGIH TLV (United States, 3/2018).</b>  TWA: 20 ppm 8 hours.  <b>NIOSH REL (United States, 10/2016).</b>  TWA: 100 ppm 10 hours.</p>

## Section 8. Exposure controls/personal protection

<p>Isopropyl Acetate</p> <p>Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine Unsaturated Fatty Acids Carbon Black</p>	<p>TWA: 435 mg/m<sup>3</sup> 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m<sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 5/2018).</b> TWA: 100 ppm 8 hours. TWA: 435 mg/m<sup>3</sup> 8 hours. <b>OSHA PEL (United States, 5/2018).</b> TWA: 250 ppm 8 hours. TWA: 950 mg/m<sup>3</sup> 8 hours. <b>ACGIH TLV (United States, 3/2018).</b> TWA: 100 ppm 8 hours. TWA: 835 mg/m<sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 1040 mg/m<sup>3</sup> 15 minutes. None.</p> <p>None. <b>NIOSH REL (United States, 10/2016).</b> TWA: 3.5 mg/m<sup>3</sup> 10 hours. TWA: 0.1 mg of PAHs/cm<sup>3</sup> 10 hours. <b>ACGIH TLV (United States, 3/2018).</b> TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction <b>OSHA PEL (United States, 5/2018).</b> TWA: 3.5 mg/m<sup>3</sup> 8 hours.</p>
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### Occupational exposure limits (Canada)

Ingredient name	Exposure limits
<p>Methyl isobutyl ketone</p> <p>Isopropyl alcohol</p>	<p><b>CA Alberta Provincial (Canada, 4/2009).</b> 8 hrs OEL: 205 mg/m<sup>3</sup> 8 hours. 8 hrs OEL: 50 ppm 8 hours. 15 min OEL: 75 ppm 15 minutes. 15 min OEL: 307 mg/m<sup>3</sup> 15 minutes. <b>CA British Columbia Provincial (Canada, 6/2017).</b> TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes. <b>CA Ontario Provincial (Canada, 1/2018).</b> TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes. <b>CA Quebec Provincial (Canada, 1/2014).</b> TWA<sub>EV</sub>: 50 ppm 8 hours. TWA<sub>EV</sub>: 205 mg/m<sup>3</sup> 8 hours. STEV: 75 ppm 15 minutes. STEV: 307 mg/m<sup>3</sup> 15 minutes. <b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 75 ppm 15 minutes. TWA: 50 ppm 8 hours.</p> <p><b>CA Alberta Provincial (Canada, 4/2009).</b> 15 min OEL: 984 mg/m<sup>3</sup> 15 minutes. 8 hrs OEL: 200 ppm 8 hours. 15 min OEL: 400 ppm 15 minutes. 8 hrs OEL: 492 mg/m<sup>3</sup> 8 hours. <b>CA British Columbia Provincial (Canada, 6/2017).</b> TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. <b>CA Ontario Provincial (Canada, 1/2018).</b> TWA: 200 ppm 8 hours.</p>



## Section 8. Exposure controls/personal protection

Xylene

STEL: 400 ppm 15 minutes.  
**CA Quebec Provincial (Canada, 1/2014).**  
 TWAEV: 400 ppm 8 hours.  
 TWAEV: 983 mg/m<sup>3</sup> 8 hours.  
 STEV: 500 ppm 15 minutes.  
 STEV: 1230 mg/m<sup>3</sup> 15 minutes.  
**CA Saskatchewan Provincial (Canada, 7/2013).**  
 STEL: 400 ppm 15 minutes.  
 TWA: 200 ppm 8 hours.

**CA Alberta Provincial (Canada, 4/2009).**  
 8 hrs OEL: 100 ppm 8 hours.  
 15 min OEL: 651 mg/m<sup>3</sup> 15 minutes.  
 15 min OEL: 150 ppm 15 minutes.  
 8 hrs OEL: 434 mg/m<sup>3</sup> 8 hours.

**CA British Columbia Provincial (Canada, 6/2017).**  
 TWA: 100 ppm 8 hours.  
 STEL: 150 ppm 15 minutes.

**CA Quebec Provincial (Canada, 1/2014).**  
 TWAEV: 100 ppm 8 hours.  
 TWAEV: 434 mg/m<sup>3</sup> 8 hours.  
 STEV: 150 ppm 15 minutes.  
 STEV: 651 mg/m<sup>3</sup> 15 minutes.

**CA Ontario Provincial (Canada, 1/2018).**  
 STEL: 150 ppm 15 minutes.  
 TWA: 100 ppm 8 hours.

**CA Saskatchewan Provincial (Canada, 7/2013).**  
 STEL: 150 ppm 15 minutes.  
 TWA: 100 ppm 8 hours.

Talc (none asbestiform)

**CA British Columbia Provincial (Canada, 6/2017).**  
 TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable  
 TWA: 0.1 f/cc 8 hours.

**CA Quebec Provincial (Canada, 1/2014).**  
 TWAEV: 3 mg/m<sup>3</sup> 8 hours. Form: Respirable dust.

**CA Ontario Provincial (Canada, 1/2018).**  
 TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction.  
 TWA: 2 f/cc 8 hours.

**CA Alberta Provincial (Canada, 4/2009).**  
 8 hrs OEL: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate

**CA Saskatchewan Provincial (Canada, 7/2013).**  
 TWA: 2 mg/m<sup>3</sup> 8 hours. Form: respirable fraction

Ethylene glycol monobutyl ether

**CA Alberta Provincial (Canada, 4/2009).**  
 8 hrs OEL: 97 mg/m<sup>3</sup> 8 hours.  
 8 hrs OEL: 20 ppm 8 hours.  
**CA British Columbia Provincial (Canada, 6/2017).**  
 TWA: 20 ppm 8 hours.

**CA Ontario Provincial (Canada, 1/2018).**  
 TWA: 20 ppm 8 hours.

**CA Quebec Provincial (Canada, 1/2014).**  
 TWAEV: 20 ppm 8 hours.  
 TWAEV: 97 mg/m<sup>3</sup> 8 hours.

**CA Saskatchewan Provincial (Canada,**

## Section 8. Exposure controls/personal protection

n-Dibutyl phthalate	<p>7/2013).            STEL: 30 ppm 15 minutes.            TWA: 20 ppm 8 hours.  <b>CA Alberta Provincial (Canada, 4/2009).</b>            8 hrs OEL: 5 mg/m<sup>3</sup> 8 hours.  <b>CA British Columbia Provincial (Canada, 6/2017).</b>            TWA: 5 mg/m<sup>3</sup> 8 hours.  <b>CA Ontario Provincial (Canada, 1/2018).</b>            TWA: 5 mg/m<sup>3</sup> 8 hours.  <b>CA Quebec Provincial (Canada, 1/2014).</b>            TWAEV: 5 mg/m<sup>3</sup> 8 hours.  <b>CA Saskatchewan Provincial (Canada, 7/2013).</b>            STEL: 10 mg/m<sup>3</sup> 15 minutes.            TWA: 5 mg/m<sup>3</sup> 8 hours.</p>
Isobutyl alcohol	<p><b>CA Alberta Provincial (Canada, 4/2009).</b>            8 hrs OEL: 50 ppm 8 hours.            8 hrs OEL: 152 mg/m<sup>3</sup> 8 hours.  <b>CA British Columbia Provincial (Canada, 6/2017).</b>            TWA: 50 ppm 8 hours.  <b>CA Ontario Provincial (Canada, 1/2018).</b>            TWA: 50 ppm 8 hours.  <b>CA Quebec Provincial (Canada, 1/2014).</b>            TWAEV: 50 ppm 8 hours.            TWAEV: 152 mg/m<sup>3</sup> 8 hours.  <b>CA Saskatchewan Provincial (Canada, 7/2013).</b>            STEL: 60 ppm 15 minutes.            TWA: 50 ppm 8 hours.</p>
Toluene	<p><b>CA Alberta Provincial (Canada, 4/2009).</b>  <b>Absorbed through skin.</b>            8 hrs OEL: 50 ppm 8 hours.            8 hrs OEL: 188 mg/m<sup>3</sup> 8 hours.  <b>CA British Columbia Provincial (Canada, 6/2017).</b>            TWA: 20 ppm 8 hours.  <b>CA Ontario Provincial (Canada, 1/2018).</b>            TWA: 20 ppm 8 hours.  <b>CA Quebec Provincial (Canada, 1/2014).</b>  <b>Absorbed through skin.</b>            TWAEV: 50 ppm 8 hours.            TWAEV: 188 mg/m<sup>3</sup> 8 hours.  <b>CA Saskatchewan Provincial (Canada, 7/2013).</b> <b>Absorbed through skin.</b>            STEL: 60 ppm 15 minutes.            TWA: 50 ppm 8 hours.</p>
Ethylbenzene	<p><b>CA Alberta Provincial (Canada, 4/2009).</b>            8 hrs OEL: 100 ppm 8 hours.            8 hrs OEL: 434 mg/m<sup>3</sup> 8 hours.            15 min OEL: 543 mg/m<sup>3</sup> 15 minutes.            15 min OEL: 125 ppm 15 minutes.  <b>CA British Columbia Provincial (Canada, 6/2017).</b>            TWA: 20 ppm 8 hours.  <b>CA Ontario Provincial (Canada, 1/2018).</b>            TWA: 20 ppm 8 hours.  <b>CA Quebec Provincial (Canada, 1/2014).</b>            TWAEV: 100 ppm 8 hours.            TWAEV: 434 mg/m<sup>3</sup> 8 hours.</p>

## Section 8. Exposure controls/personal protection

Isopropyl acetate

STEV: 125 ppm 15 minutes.  
 STEV: 543 mg/m<sup>3</sup> 15 minutes.  
**CA Saskatchewan Provincial (Canada, 7/2013).**  
 STEL: 125 ppm 15 minutes.  
 TWA: 100 ppm 8 hours.  
**CA Alberta Provincial (Canada, 4/2009).**  
 15 min OEL: 200 ppm 15 minutes.  
 8 hrs OEL: 416 mg/m<sup>3</sup> 8 hours.  
 15 min OEL: 832 mg/m<sup>3</sup> 15 minutes.  
 8 hrs OEL: 100 ppm 8 hours.  
**CA British Columbia Provincial (Canada, 6/2017).**  
 TWA: 100 ppm 8 hours.  
 STEL: 200 ppm 15 minutes.  
**CA Ontario Provincial (Canada, 1/2018).**  
 TWA: 100 ppm 8 hours.  
 STEL: 200 ppm 15 minutes.  
**CA Quebec Provincial (Canada, 1/2014).**  
 TWAEV: 250 ppm 8 hours.  
 TWAEV: 1040 mg/m<sup>3</sup> 8 hours.  
 STEV: 310 ppm 15 minutes.  
 STEV: 1290 mg/m<sup>3</sup> 15 minutes.  
**CA Saskatchewan Provincial (Canada, 7/2013).**  
 STEL: 200 ppm 15 minutes.  
 TWA: 100 ppm 8 hours.

Methyl ethyl ketone

**CA Alberta Provincial (Canada, 4/2009).**  
 15 min OEL: 300 ppm 15 minutes.  
 8 hrs OEL: 200 ppm 8 hours.  
 8 hrs OEL: 590 mg/m<sup>3</sup> 8 hours.  
 15 min OEL: 885 mg/m<sup>3</sup> 15 minutes.  
**CA British Columbia Provincial (Canada, 6/2017).**  
 TWA: 50 ppm 8 hours.  
 STEL: 100 ppm 15 minutes.  
**CA Ontario Provincial (Canada, 1/2018).**  
 TWA: 200 ppm 8 hours.  
 STEL: 300 ppm 15 minutes.  
**CA Quebec Provincial (Canada, 1/2014).**  
 TWAEV: 50 ppm 8 hours.  
 TWAEV: 150 mg/m<sup>3</sup> 8 hours.  
 STEV: 100 ppm 15 minutes.  
 STEV: 300 mg/m<sup>3</sup> 15 minutes.  
**CA Saskatchewan Provincial (Canada, 7/2013).**  
 STEL: 300 ppm 15 minutes.  
 TWA: 200 ppm 8 hours.

Carbon black

**CA British Columbia Provincial (Canada, 6/2017).**  
 TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable  
**CA Ontario Provincial (Canada, 1/2018).**  
 TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction.  
**CA Alberta Provincial (Canada, 4/2009).**  
 8 hrs OEL: 3.5 mg/m<sup>3</sup> 8 hours.  
**CA Quebec Provincial (Canada, 1/2014).**  
 TWAEV: 3.5 mg/m<sup>3</sup> 8 hours.  
**CA Saskatchewan Provincial (Canada, 7/2013).**  
 STEL: 7 mg/m<sup>3</sup> 15 minutes.

## Section 8. Exposure controls/personal protection

TWA: 3.5 mg/m<sup>3</sup> 8 hours.

### Occupational exposure limits (Mexico)

<b>Ingredient name</b>	<b>Exposure limits</b>
Methyl Isobutyl Ketone	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 50 ppm 8 hours. STEL: 75 ppm 15 minutes.
2-Propanol	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.
Xylene mixed isomers	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
2-Butoxyethanol	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> <b>Absorbed through skin.</b> TWA: 20 ppm 8 hours.
Dibutyl Phthalate	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.
2-methylpropan-1-ol	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 50 ppm 8 hours.
Toluene	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 20 ppm 8 hours.
Ethylbenzene	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 20 ppm 8 hours.
Isopropyl Acetate	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 100 ppm 8 hours. STEL: 200 ppm 15 minutes.

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

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

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### 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.

## Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point/boiling range** : 81°C (177.8°F)
- Flash point** : Closed cup: 9°C (48.2°F) [Pensky-Martens Closed Cup]
- Evaporation rate** : 3 (butyl acetate = 1)
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Lower: 1%  
Upper: 12.7%
- Vapor pressure** : 6.3 kPa (47.5 mm Hg) [at 20°C]
- Vapor density** : 2.07 [Air = 1]
- Relative density** : 1.1
- 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** : 18.336 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.

## Section 10. Stability and reactivity

**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
Methyl Isobutyl Ketone	LD50 Oral	Rat	2080 mg/kg	-
2-Propanol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Xylene mixed isomers	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
2-Butoxyethanol	LCLo Inhalation Vapor	Guinea pig	>3.1 mg/l	1 hours
	LD50 Dermal	Guinea pig	>2000 mg/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
Magnesium Carbonate	LD50 Oral	Rat	8000 mg/kg	-
Dibutyl Phthalate	LD50 Oral	Rat	7499 mg/kg	-
2-Methyl-1-propanol	LC50 Inhalation Vapor	Rat	19200 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Cellulose Nitrate	LD50 Oral	Rat	>5 g/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Isopropyl Acetate	LD50 Oral	Rat	6750 mg/kg	-
Carbon Black	LD50 Oral	Rat	>15400 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methyl Isobutyl Ketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Eyes - Severe irritant	Rabbit	-	40 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
2-Propanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Xylene mixed isomers	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Talc	Skin - Moderate irritant	Rabbit	-	100 Percent	-
	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-

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## Section 11. Toxicological information

Epoxy Polymer	Skin - Mild irritant	Rabbit	-	500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 microliters	-
Toluene	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	870 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-
Ethylbenzene	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-
Isopropyl Acetate	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

Product/ingredient name	OSHA	IARC	NTP
Methyl Isobutyl Ketone	-	2B	-
2-Propanol	-	3	-
Xylene mixed isomers	-	3	-
Talc	-	3	-
2-Butoxyethanol	-	3	-
Titanium Dioxide, Rutile	-	2B	-
Cellulose Nitrate	-	2A	-
Toluene	-	3	-
Ethylbenzene	-	2B	-
Carbon Black	-	2B	-

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Methyl Isobutyl Ketone	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Propanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Xylene mixed isomers	Category 3	Not applicable.	Respiratory tract irritation
2-Butoxyethanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Methyl-1-propanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Toluene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Isopropyl Acetate	Category 3	Not applicable.	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Methyl Isobutyl Ketone	Category 2	Not determined	Not determined
2-Propanol	Category 2	Not determined	Not determined
Xylene mixed isomers	Category 2	Not determined	Not determined
Talc	Category 1	Inhalation	lungs
2-Butoxyethanol	Category 2	Not determined	Not determined
2-Methyl-1-propanol	Category 2	Not determined	Not determined
Toluene	Category 2	Not determined	Not determined
Ethylbenzene	Category 2	Not determined	Not determined

### Aspiration hazard

Name	Result
Xylene mixed isomers	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

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

### Potential acute health effects

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

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

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

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

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

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

**Inhalation** : Adverse symptoms may include the following:  
 respiratory tract irritation  
 coughing  
 nausea or vomiting  
 headache  
 drowsiness/fatigue  
 dizziness/vertigo  
 unconsciousness  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

**Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

**Ingestion** : Adverse symptoms may include the following:  
 stomach pains  
 nausea or vomiting  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

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

**Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

**General** : 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** : May damage the unborn child.

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

**Fertility effects** : Suspected of damaging fertility.

**Numerical measures of toxicity**

**Acute toxicity estimates**

<b>Route</b>	<b>ATE value</b>
Oral	3868.7 mg/kg
Dermal	4509.9 mg/kg
Inhalation (gases)	45312.8 ppm
Inhalation (vapors)	26.59 mg/l

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Methyl Isobutyl Ketone	Acute LC50 505000 µg/l Fresh water Chronic NOEC 78 mg/l Fresh water Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas Daphnia - Daphnia magna Fish - Pimephales promelas - Embryo	96 hours 21 days 33 days
2-Propanol	Acute EC50 10100 mg/l Fresh water Acute LC50 1400000 µg/l Marine water	Daphnia - Daphnia magna Crustaceans - Crangon crangon	48 hours 48 hours
Xylene mixed isomers	Acute LC50 4200 mg/l Fresh water Acute LC50 8500 µg/l Marine water	Fish - Rasbora heteromorpha Crustaceans - Palaemonetes pugio	96 hours 48 hours
2-Butoxyethanol	Acute LC50 13400 µg/l Fresh water Acute EC50 >1000 mg/l Fresh water Acute LC50 800000 µg/l Marine water Acute LC50 1250000 µg/l Marine water	Fish - Pimephales promelas Daphnia - Daphnia magna Crustaceans - Crangon crangon Fish - Menidia beryllina	96 hours 48 hours 48 hours 96 hours
Dibutyl Phthalate	Acute EC50 3.4 µg/l Marine water Acute EC50 2990 µg/l Fresh water Acute LC50 480 µg/l Fresh water	Algae - Karenia brevis Daphnia - Daphnia magna Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 48 hours 96 hours
2-Methyl-1-propanol	Chronic NOEC 210 µg/l Fresh water Chronic NOEC 500 µg/l Fresh water Chronic NOEC 25 µg/l Fresh water Acute LC50 600 mg/l Marine water Acute LC50 1030000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata Daphnia - Daphnia magna Fish - Danio rerio - Embryo Crustaceans - Artemia salina Daphnia - Daphnia magna - Neonate	96 hours 21 days 5 weeks 48 hours 48 hours
Cellulose Nitrate	Acute LC50 1330000 µg/l Fresh water Chronic NOEC 4000 µg/l Fresh water Acute EC50 579000 µg/l Fresh water	Fish - Oncorhynchus mykiss Daphnia - Daphnia magna Algae - Pseudokirchneriella subcapitata	96 hours 21 days 96 hours
Toluene	Acute EC50 12500 µg/l Fresh water Acute EC50 11600 µg/l Fresh water Acute EC50 5.56 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata Crustaceans - Gammarus pseudolimnaeus - Adult Daphnia - Daphnia magna - Neonate	72 hours 48 hours 48 hours
Ethylbenzene	Acute LC50 5500 µg/l Fresh water Chronic NOEC 1000 µg/l Fresh water Acute EC50 4600 µg/l Fresh water Acute EC50 3600 µg/l Fresh water Acute EC50 6.53 mg/l Marine water Acute EC50 2.93 mg/l Fresh water	Fish - Oncorhynchus kisutch - Fry Daphnia - Daphnia magna Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Crustaceans - Artemia sp. - Nauplii Daphnia - Daphnia magna - Neonate	96 hours 21 days 72 hours 96 hours 48 hours 48 hours
Isopropyl Acetate	Acute LC50 4200 µg/l Fresh water Acute LC50 110 mg/l Marine water	Fish - Oncorhynchus mykiss Crustaceans - Artemia salina	96 hours 48 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl Isobutyl Ketone	-	-	Readily
2-Propanol	-	-	Readily
Xylene mixed isomers	-	-	Readily
2-Butoxyethanol	-	-	Readily
2-Methyl-1-propanol	-	-	Readily
Toluene	-	-	Readily
Ethylbenzene	-	-	Readily

## Section 12. Ecological information

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Xylene mixed isomers	-	8.1 to 25.9	low
Epoxy Polymer	-	31	low
Dibutyl Phthalate	-	165.96	low
Toluene	-	90	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 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

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3 	3 	3 	3 	3 
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-  <b>ERG No.</b> 128	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).  <b>ERG No.</b> 128	-  <b>ERG No.</b> 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 Annex II of MARPOL and the IBC Code** : Not available.

**Proper shipping name** : Not available.

**Ship type** : Not available.

**Pollution category** : Not available.

## Section 15. Regulatory information

### SARA 313

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

### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### International regulations

#### International lists

**Australia inventory (AICS)**: Not determined.  
**China inventory (IECSC)**: Not determined.  
**Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**Korea inventory (KECI)**: Not determined.  
**Malaysia Inventory (EHS Register)**: 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 2	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1B	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
TOXIC TO REPRODUCTION (Fertility) - Category 2	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) (lungs) - Category 1	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

### History

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

### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by 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.