

## SAFETY DATA SHEET

Epoxy 0200T106

### Section 1. Identification

**GHS product identifier** : Epoxy 0200T106

**SDS code** : 008636

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

| Identified uses      |
|----------------------|
| Industrial use       |
| Uses advised against |
| All other uses       |

#### Supplier's details

International Paint LLC  
1 East Water Street  
Waukegan, IL 60085  
USA  
Tel. 1 847 623 4200  
Email: customer.service@akzonobel.com

Akzo Nobel Coatings Ltd.  
110 Woodbine Downs Blvd.  
Unit #4 Etobicoke, Ontario  
Canada M9W 5S6  
+1 (800) 618-1010

**Importer** : Cía. Mexicana de Pinturas International  
S.A. de C.V., Carretera Anillo Periférico,  
No Ext 205, No Interior A, Colonia HDA S JOSE, Garcia, Garcia, CP 66000, Nuevo  
Leon.  
RFC: ANA9510267C4

**Emergency telephone number (with hours of operation)** : CHEMTREC +1 (800) 424-9300 (Inside the US)  
CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)

### Section 2. Hazards identification

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

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN IRRITATION - Category 2  
SERIOUS EYE DAMAGE - Category 1  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### GHS label elements

**Date of issue/Date of revision** : 8/12/2024

**Date of previous issue** : 6/14/2024

**Version** : 2

1/18

## Section 2. Hazards identification

### Hazard pictograms



### Signal word

: Danger

### Hazard statements

: Flammable liquid and vapor.  
 Causes skin irritation.  
 Causes serious eye damage.  
 Harmful if inhaled.  
 May cause respiratory irritation.  
 Suspected of causing cancer.  
 Suspected of damaging fertility or the unborn child.  
 May cause damage to organs through prolonged or repeated exposure. (hearing organs)

### Precautionary statements

#### Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, sparks and hot surfaces. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling.

#### Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

#### Storage

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

#### Disposal

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

### Hazards not otherwise classified

: None known.

## Section 3. Composition/information on ingredients

### Substance/mixture

: Mixture

| Ingredient name                       | %         | CAS number |
|---------------------------------------|-----------|------------|
| xylene                                | ≥25 - ≤50 | 1330-20-7  |
| butan-1-ol                            | ≤10       | 71-36-3    |
| ethylbenzene                          | ≤10       | 100-41-4   |
| 2,4,6-tris(dimethylaminomethyl)phenol | ≤3        | 90-72-2    |
| toluene                               | ≤0.3      | 108-88-3   |

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 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. Flush contaminated skin with plenty of 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. 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. 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. 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

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Harmful if inhaled. May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

#### 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  
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

## Section 4. First aid measures

- Ingestion** : Adverse symptoms may include the following:  
 stomach pains  
 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.

- Specific hazards arising from the chemical** : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

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

## Section 6. Accidental release measures

### 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). 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 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. Remove contaminated clothing and protective equipment before entering eating areas. Ensure spraying away from persons. Avoid inhalation of vapor, spray or mist. 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

| Ingredient name | Exposure limits                                                                                                                                                                                                                                                                                       |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xylene          | <b>ACGIH TLV (United States, 1/2022). [xylene]</b><br><b>Notes: 1996 Adoption Substances for which there is a Biological Exposure Index or Indices Refers to Appendix A -- Carcinogens.</b><br>STEL: 651 mg/m <sup>3</sup> 15 minutes.<br>TWA: 434 mg/m <sup>3</sup> 8 hours.<br>TWA: 20 ppm 8 hours. |

Date of issue/Date of revision : 8/12/2024

Version : 2

Date of previous issue : 6/14/2024

5/18

## Section 8. Exposure controls/personal protection

butan-1-ol

**OSHA PEL (United States, 5/2018).**

**[Xylenes]**

TWA: 435 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

**OSHA PEL 1989 (United States, 3/1989).**

**[Xylenes (o-, m-, p-isomers)]**

STEL: 655 mg/m<sup>3</sup> 15 minutes.

STEL: 150 ppm 15 minutes.

TWA: 435 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

**ACGIH TLV (United States, 1/2022). Notes: 2002 Adoption.**

TWA: 20 ppm 8 hours.

**NIOSH REL (United States, 10/2020).**

**Absorbed through skin.**

CEIL: 150 mg/m<sup>3</sup>

CEIL: 50 ppm

**OSHA PEL (United States, 5/2018).**

TWA: 300 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

**OSHA PEL 1989 (United States, 3/1989).**

**Absorbed through skin.**

CEIL: 150 mg/m<sup>3</sup>

CEIL: 50 ppm

ethylbenzene

**ACGIH TLV (United States, 1/2022).**

**Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption.**

TWA: 20 ppm 8 hours.

**NIOSH REL (United States, 10/2020).**

STEL: 545 mg/m<sup>3</sup> 15 minutes.

STEL: 125 ppm 15 minutes.

TWA: 435 mg/m<sup>3</sup> 10 hours.

TWA: 100 ppm 10 hours.

**OSHA PEL (United States, 5/2018).**

TWA: 435 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

**OSHA PEL 1989 (United States, 3/1989).**

STEL: 545 mg/m<sup>3</sup> 15 minutes.

STEL: 125 ppm 15 minutes.

TWA: 435 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

2,4,6-tris(dimethylaminomethyl)phenol  
toluene

None.

**NIOSH REL (United States, 10/2020).**

STEL: 560 mg/m<sup>3</sup> 15 minutes.

STEL: 150 ppm 15 minutes.

TWA: 375 mg/m<sup>3</sup> 10 hours.

TWA: 100 ppm 10 hours.

**OSHA PEL Z2 (United States, 2/2013).**

AMP: 500 ppm 10 minutes.

CEIL: 300 ppm

TWA: 200 ppm 8 hours.

**ACGIH TLV (United States, 1/2022).**

**Ototoxicant.**

TWA: 20 ppm 8 hours.

**OSHA PEL 1989 (United States, 3/1989).**

**Notes: See Table Z-2.**

STEL: 560 mg/m<sup>3</sup> 15 minutes.

STEL: 150 ppm 15 minutes.

TWA: 375 mg/m<sup>3</sup> 8 hours.



## Section 8. Exposure controls/personal protection

TWA: 100 ppm 8 hours.

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b> | : 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.                                                                                                                                                                                                                          |
| <b>Environmental exposure controls</b>  | : 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.                                                                                                                                                                                                                                                                               |
| <b>Individual protection measures</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Hygiene measures</b>                 | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.                                                                                                                                                                                                                |
| <b>Eye/face protection</b>              | : 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.                                                                                                                                                         |
| <b>Skin protection</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Hand protection</b>                  | : 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. |
| <b>Body protection</b>                  | : 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.                                                                                                                                                                                    |
| <b>Other skin protection</b>            | : 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.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Respiratory protection</b>           | : 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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

|                                     |                                 |
|-------------------------------------|---------------------------------|
| <b>Physical state</b>               | : Liquid.                       |
| <b>Color</b>                        | : Yellow.                       |
| <b>Odor</b>                         | : Pungent.                      |
| <b>Odor threshold</b>               | : Not available.                |
| <b>pH</b>                           | : Not applicable. [DIN EN 1262] |
| <b>Melting point/freezing point</b> | : Not available.                |

Date of issue/Date of revision : 8/12/2024

Version : 2

Date of previous issue : 6/14/2024

7/18

## Section 9. Physical and chemical properties and safety characteristics

**Boiling point, initial boiling point, and boiling range** : 45°C (113°F)

**Flash point** : Closed cup: 27°C (80.6°F) [Pensky-Martens]

**Flammability** : Not available.

**Lower and upper explosion limit** : Greatest known range: Lower: 1.4% Upper: 11.3% (butan-1-ol)

**Vapor pressure** :

| Ingredient name | Vapor Pressure at 20°C |      |                | Vapor pressure at 50°C |     |        |
|-----------------|------------------------|------|----------------|------------------------|-----|--------|
|                 | mm Hg                  | kPa  | Method         | mm Hg                  | kPa | Method |
| ethylbenzene    | 9.3                    | 1.2  | DIN EN 13016-2 |                        |     |        |
| butan-1-ol      | <7.5                   | <1   |                |                        |     |        |
| xylene          | 6.7                    | 0.89 |                |                        |     |        |

**Relative vapor density** : Not available.

**Relative density** : 0.95 [ISO 8130-2/-3]

**Solubility(ies)** :  
Not available.

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

**Auto-ignition temperature** :

| Ingredient name                       | °C  | °F    | Method  |
|---------------------------------------|-----|-------|---------|
| butan-1-ol                            | 355 | 671   | EU A.15 |
| 2,4,6-tris(dimethylaminomethyl)phenol | 382 | 719.6 | EU A.15 |
| xylene                                | 432 | 809.6 |         |

**Decomposition temperature** : Not available.

**Viscosity** : Kinematic: 1683 mm<sup>2</sup>/s (1683 cSt) [DIN EN ISO 3219]

**Weight Volatiles** : 39.07% (w/w)

**Volume Volatiles** : 42.31 % (v/v)

**Weight Solids** : 60.93 % (w/w)

**Volume Solids** : 57.69 % (v/v)

**Regulatory VOC** : 3.1 lbs/gal 371 g/l minus water and exempt solvents

**VOC Actual** : 3.1 lbs/gal 371 g/l

### Particle characteristics

**Median particle size** : Not applicable.

**Percentage of particles with aerodynamic diameter ≤ 10 µm** : 0

## 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.



## Section 10. Stability and reactivity

**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.

**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 |
|-------------------------------------------|-----------------------|------------|-------------------------|----------|
| xylene                                    | LC50 Inhalation Gas.  | Rat        | 5000 ppm                | 4 hours  |
|                                           | LC50 Inhalation Gas.  | Rat        | 6700 ppm                | 4 hours  |
|                                           | LC50 Inhalation Gas.  | Rat        | 6670 ppm                | 4 hours  |
|                                           | LD50 Intraperitoneal  | Mouse      | 1548 mg/kg              | -        |
|                                           | LD50 Intraperitoneal  | Mouse      | 1548 mg/kg              | -        |
|                                           | LD50 Intraperitoneal  | Rat        | 2459 mg/kg              | -        |
|                                           | LD50 Oral             | Mouse      | 2119 mg/kg              | -        |
|                                           | LD50 Oral             | Rat        | 4300 mg/kg              | -        |
|                                           | LD50 Oral             | Rat        | 4300 mg/kg              | -        |
|                                           | LD50 Subcutaneous     | Rat        | 1700 mg/kg              | -        |
| butan-1-ol                                | LC50 Inhalation Vapor | Rat        | 24000 mg/m <sup>3</sup> | 4 hours  |
|                                           | LD50 Dermal           | Rabbit     | 3400 mg/kg              | -        |
|                                           | LD50 Intraperitoneal  | Mouse      | 254 mg/kg               | -        |
|                                           | LD50 Intraperitoneal  | Rat        | 200 mg/kg               | -        |
|                                           | LD50 Intravenous      | Mouse      | 377 mg/kg               | -        |
|                                           | LD50 Intravenous      | Rat        | 310 mg/kg               | -        |
|                                           | LD50 Oral             | Mouse      | 100 mg/kg               | -        |
|                                           | LD50 Oral             | Rabbit     | 3484 mg/kg              | -        |
|                                           | LD50 Oral             | Rabbit     | 3400 mg/kg              | -        |
|                                           | LD50 Oral             | Rat        | 0.79 g/kg               | -        |
|                                           | LD50 Oral             | Rat        | 4.36 g/kg               | -        |
|                                           | LD50 Oral             | Rat        | 790 mg/kg               | -        |
|                                           | LD50 Subcutaneous     | Mouse      | 3200 mg/kg              | -        |
|                                           | LC50 Inhalation Gas.  | Rabbit     | 4000 ppm                | 4 hours  |
| ethylbenzene                              | LC50 Inhalation Vapor | Mouse      | 35500 mg/m <sup>3</sup> | 2 hours  |
|                                           | LC50 Inhalation Vapor | Rat        | 55000 mg/m <sup>3</sup> | 2 hours  |
|                                           | LD50 Dermal           | Rabbit     | >5000 mg/kg             | -        |
|                                           | LD50 Dermal           | Rabbit     | 17800 uL/kg             | -        |
|                                           | LD50 Intraperitoneal  | Mouse      | 2624 uL/kg              | -        |
|                                           | LD50 Oral             | Rat        | 3500 mg/kg              | -        |
|                                           | LD50 Oral             | Rat        | 3500 mg/kg              | -        |
|                                           | LD50 Oral             | Rat        | 1280 mg/kg              | -        |
|                                           | LD50 Oral             | Rat        | 1200 mg/kg              | -        |
|                                           | LD50 Oral             | Rat        | 1673 mg/kg              | -        |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol | LD50 Oral             | Rat        | 2169 mg/kg              | -        |
|                                           | LC50 Inhalation Gas.  | Mouse      | 400 ppm                 | 24 hours |
|                                           | LC50 Inhalation Vapor | Mouse      | 30000 mg/m <sup>3</sup> | 2 hours  |
|                                           | LC50 Inhalation Vapor | Mouse      | 19900 mg/m <sup>3</sup> | 7 hours  |
|                                           | LC50 Inhalation Vapor | Rat        | 49 g/m <sup>3</sup>     | 4 hours  |
| toluene                                   | LD50 Dermal           | Rabbit     | 14100 uL/kg             | -        |
|                                           | LD50 Intraperitoneal  | Guinea pig | 500 mg/kg               | -        |
|                                           | LD50 Intraperitoneal  | Mouse      | 59 mg/kg                | -        |
|                                           | LD50 Intraperitoneal  | Rat        | 1332 mg/kg              | -        |
|                                           | LD50 Intravenous      | Rat        | 1960 mg/kg              | -        |
|                                           | LD50 Oral             | Rat        | 636 mg/kg               | -        |

# Section 11. Toxicological information

|  |                                   |       |            |   |
|--|-----------------------------------|-------|------------|---|
|  | LD50 Route of exposure unreported | Mouse | 2 g/kg     | - |
|  | LD50 Route of exposure unreported | Rat   | 6900 mg/kg | - |
|  | LD50 Subcutaneous                 | Mouse | 2250 mg/kg | - |

## Irritation/Corrosion

| Product/ingredient name                | Result                   | Species | Score | Exposure        | Observation |
|----------------------------------------|--------------------------|---------|-------|-----------------|-------------|
| xylene                                 | Eyes - Mild irritant     | Rabbit  | -     | 87 mg           | -           |
|                                        | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5 mg   | -           |
|                                        | Skin - Mild irritant     | Rat     | -     | 8 hours 60 UI   | -           |
|                                        | Skin - Moderate irritant | Rabbit  | -     | 100 %           | -           |
| butan-1-ol                             | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
|                                        | Eyes - Severe irritant   | Rabbit  | -     | 0.005 MI        | -           |
|                                        | Eyes - Severe irritant   | Rabbit  | -     | 1.62 mg         | -           |
|                                        | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 mg   | -           |
| ethylbenzene                           | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg  | -           |
|                                        | Eyes - Severe irritant   | Rabbit  | -     | 500 mg          | -           |
|                                        | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15 mg  | -           |
|                                        | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 50 ug  | -           |
| 2,4,6-tris (dimethylaminomethyl)phenol | Skin - Mild irritant     | Rat     | -     | 0.025 MI        | -           |
|                                        | Skin - Severe irritant   | Rabbit  | -     | 24 hours 2 mg   | -           |
|                                        | Skin - Severe irritant   | Rabbit  | -     | 24 hours 500 UI | -           |
|                                        | Skin - Severe irritant   | Rat     | -     | 0.25 MI         | -           |
| toluene                                | Eyes - Mild irritant     | Rabbit  | -     | 0.5 minutes     | -           |
|                                        | Eyes - Mild irritant     | Rabbit  | -     | 100 mg          | -           |
|                                        | Eyes - Severe irritant   | Rabbit  | -     | 870 ug          | -           |
|                                        | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 mg   | -           |
|                                        | Skin - Mild irritant     | Rabbit  | -     | 435 mg          | -           |
|                                        | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg  | -           |
|                                        | Skin - Moderate irritant | Rabbit  | -     | 500 mg          | -           |
|                                        | Skin - Moderate irritant | Rabbit  | -     | 500 mg          | -           |

## Sensitization

Not available.

## Mutagenicity

Not available.

## Carcinogenicity

Not available.

## Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| xylene                  | -    | 3    | -   |
| ethylbenzene            | -    | 2B   | -   |
| toluene                 | -    | 3    | -   |

## Reproductive toxicity

Not available.

## Teratogenicity

## Section 11. Toxicological information

Not available.

### Specific target organ toxicity (single exposure)

| Name       | Category   | Route of exposure | Target organs                |
|------------|------------|-------------------|------------------------------|
| xylene     | Category 3 | -                 | Respiratory tract irritation |
| butan-1-ol | Category 3 | -                 | Respiratory tract irritation |
| toluene    | Category 3 | -                 | Narcotic effects             |
|            | Category 3 | -                 | Narcotic effects             |

### Specific target organ toxicity (repeated exposure)

| Name         | Category   | Route of exposure | Target organs           |
|--------------|------------|-------------------|-------------------------|
| ethylbenzene | Category 2 | -                 | hearing organs          |
| toluene      | Category 2 | inhalation        | cerebral nervous system |

### Aspiration hazard

| Name         | Result                         |
|--------------|--------------------------------|
| xylene       | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |
| toluene      | ASPIRATION HAZARD - Category 1 |

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

### Potential acute health effects

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

**Inhalation** : Harmful if inhaled. May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

**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  
watering  
redness

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
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  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

## Section 11. Toxicological information

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

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

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

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

**Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name               | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Product as-supplied                   | 3516.5       | 4366.4         | 19847.4                  | 186.2                      | N/A                                 |
| xylene                                | N/A          | 1100           | 5000                     | N/A                        | N/A                                 |
| butan-1-ol                            | 500          | N/A            | N/A                      | N/A                        | N/A                                 |
| ethylbenzene                          | N/A          | N/A            | N/A                      | 11                         | N/A                                 |
| 2,4,6-tris(dimethylaminomethyl)phenol | 500          | N/A            | N/A                      | N/A                        | N/A                                 |
| toluene                               | N/A          | N/A            | N/A                      | 49                         | N/A                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                               | Species                                                                | Exposure |
|-------------------------|--------------------------------------|------------------------------------------------------------------------|----------|
| xylene                  | Acute EC50 90 mg/l Fresh water       | Crustaceans - Cypris subglobosa                                        | 48 hours |
|                         | Acute LC50 8.5 ppm Marine water      | Crustaceans - Palaemonetes pugio - Adult                               | 48 hours |
|                         | Acute LC50 8500 µg/l Marine water    | Crustaceans - Palaemonetes pugio                                       | 48 hours |
|                         | Acute LC50 16940 µg/l Fresh water    | Fish - Carassius auratus                                               | 96 hours |
|                         | Acute LC50 15700 µg/l Fresh water    | Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
|                         | Acute LC50 20870 µg/l Fresh water    | Fish - Lepomis macrochirus                                             | 96 hours |
|                         | Acute LC50 19000 µg/l Fresh water    | Fish - Lepomis macrochirus                                             | 96 hours |
|                         | Acute LC50 13400 µg/l Fresh water    | Fish - Pimephales promelas                                             | 96 hours |
|                         | Acute EC50 1983 mg/l Fresh water     | Daphnia - Daphnia magna                                                | 48 hours |
|                         | Acute LC50 2300000 µg/l Marine water | Fish - Alburnus alburnus                                               | 96 hours |
| butan-1-ol              | Acute LC50 1910000 µg/l Fresh water  | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |

**Date of issue/Date of revision** : 8/12/2024

**Version** : 2

**Date of previous issue** : 6/14/2024

12/18

## Section 12. Ecological information

|              |                                     |                                                                        |          |
|--------------|-------------------------------------|------------------------------------------------------------------------|----------|
| ethylbenzene | Acute LC50 1940000 µg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
|              | Acute LC50 1730000 µg/l Fresh water | Fish - Pimephales promelas                                             | 96 hours |
|              | Acute EC50 4600 µg/l Fresh water    | Algae - Pseudokirchneriella subcapitata                                | 72 hours |
|              | Acute EC50 5400 µg/l Fresh water    | Algae - Pseudokirchneriella subcapitata                                | 72 hours |
|              | Acute EC50 3600 µg/l Fresh water    | Algae - Pseudokirchneriella subcapitata                                | 96 hours |
|              | Acute EC50 4900 µg/l Marine water   | Algae - Skeletonema costatum                                           | 72 hours |
|              | Acute EC50 7700 µg/l Marine water   | Algae - Skeletonema costatum                                           | 96 hours |
|              | Acute EC50 6.53 mg/l Marine water   | Crustaceans - Artemia sp. - Nauplii                                    | 48 hours |
|              | Acute EC50 13.3 mg/l Marine water   | Crustaceans - Artemia sp. - Nauplii                                    | 48 hours |
|              | Acute EC50 2.97 mg/l Fresh water    | Daphnia - Daphnia magna - Neonate                                      | 48 hours |
|              | Acute EC50 2.93 mg/l Fresh water    | Daphnia - Daphnia magna - Neonate                                      | 48 hours |
|              | Acute LC50 8.78 mg/l Marine water   | Crustaceans - Artemia sp. - Nauplii                                    | 48 hours |
|              | Acute LC50 13.3 mg/l Marine water   | Crustaceans - Artemia sp. - Nauplii                                    | 48 hours |
|              | Acute LC50 40000 µg/l Marine water  | Crustaceans - Cancer magister - Zoea                                   | 48 hours |
|              | Acute LC50 18.4 mg/l Fresh water    | Daphnia - Daphnia magna - Neonate                                      | 48 hours |
|              | Acute LC50 13.9 mg/l Fresh water    | Daphnia - Daphnia magna - Neonate                                      | 48 hours |
|              | Acute LC50 75000 µg/l Fresh water   | Daphnia - Daphnia magna                                                | 48 hours |
|              | Acute LC50 5100 µg/l Marine water   | Fish - Menidia menidia                                                 | 96 hours |
|              | Acute LC50 4.3 ul/L Marine water    | Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)    | 96 hours |
| toluene      | Acute LC50 4200 µg/l Fresh water    | Fish - Oncorhynchus mykiss                                             | 96 hours |
|              | Acute LC50 9090 µg/l Fresh water    | Fish - Pimephales promelas                                             | 96 hours |
|              | Acute LC50 9100 µg/l Fresh water    | Fish - Pimephales promelas                                             | 96 hours |
|              | Acute EC50 12500 µg/l Fresh water   | Algae - Pseudokirchneriella subcapitata                                | 72 hours |
|              | Acute EC50 16500 µg/l Fresh water   | Crustaceans - Gammarus pseudolimnaeus - Adult                          | 48 hours |
|              | Acute EC50 11600 µg/l Fresh water   | Crustaceans - Gammarus pseudolimnaeus - Adult                          | 48 hours |
|              | Acute EC50 6.88 mg/l Fresh water    | Daphnia - Daphnia magna - Neonate                                      | 48 hours |
|              | Acute EC50 6.56 mg/l Fresh water    | Daphnia - Daphnia magna - Neonate                                      | 48 hours |
|              | Acute EC50 19600 µg/l Fresh water   | Daphnia - Daphnia magna - Larvae                                       | 48 hours |
|              | Acute EC50 6000 µg/l Fresh water    | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)    | 48 hours |
|              | Acute EC50 6780 µg/l Fresh water    | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
|              | Acute LC50 56.3 ppm Marine water    | Crustaceans - Americamysis bahia                                       | 48 hours |
|              | Acute LC50 15.5 ppm Marine water    | Crustaceans - Palaemonetes pugio - Adult                               | 48 hours |
|              | Acute LC50 15500 µg/l Marine water  | Crustaceans - Palaemonetes pugio                                       | 48 hours |
|              | Acute LC50 86.3 mg/l Fresh water    | Daphnia - Daphnia magna -                                              | 48 hours |

## Section 12. Ecological information

|  |                                    |                                                                        |          |
|--|------------------------------------|------------------------------------------------------------------------|----------|
|  | Acute LC50 6410 µg/l Marine water  | Neonate<br>Fish - Oncorhynchus gorboscha - Fry                         | 96 hours |
|  | Acute LC50 5500 µg/l Fresh water   | Fish - Oncorhynchus kisutch - Fry                                      | 96 hours |
|  | Acute LC50 5800 µg/l Fresh water   | Fish - Oncorhynchus mykiss                                             | 96 hours |
|  | Acute LC50 6780 µg/l Fresh water   | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
|  | Chronic NOEC 2 mg/l Fresh water    | Daphnia - Daphnia magna                                                | 21 days  |
|  | Chronic NOEC 1000 µg/l Fresh water | Daphnia - Daphnia magna                                                | 21 days  |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name                   | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------------------------|--------------------|-------------|-----------|
| xylene                                    | 3.12               | 8.1 to 25.9 | low       |
| butan-1-ol                                | 1                  | -           | low       |
| ethylbenzene                              | 3.6                | -           | low       |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol | 0.219              | -           | low       |
| toluene                                   | 2.73               | 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.

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

| Ingredient | CAS #     | Status | Reference number |
|------------|-----------|--------|------------------|
| xylene     | 1330-20-7 | Listed | U239             |
| butan-1-ol | 71-36-3   | Listed | U031             |

## Section 14. Transport information

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

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

### Additional information

- DOT Classification** : **Reportable quantity** 396.95 lbs / 180.21 kg [50.113 gal / 189.7 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- 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\_  
**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

**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.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

- U.S. Federal regulations** : **TSCA 5(a)2 final significant new use rules:** No products found.  
**TSCA 5(e) substance consent order:** No products found.  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are active or exempted.  
**Clean Water Act (CWA) 307:** ethylbenzene; toluene  
**Clean Water Act (CWA) 311:** xylene; ethylbenzene; toluene
- Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed



Section 15. Regulatory information

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 3  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN IRRITATION - Category 2  
SERIOUS EYE DAMAGE - Category 1  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Composition/information on ingredients

| Name                                   | %         | Classification                                                                                                                                                                                                                                                                                                              |
|----------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xylene                                 | ≥25 - ≤50 | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>ASPIRATION HAZARD - Category 1        |
| butan-1-ol                             | ≤10       | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (oral) - Category 4<br>SKIN IRRITATION - Category 2<br>SERIOUS EYE DAMAGE - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| ethylbenzene                           | ≤10       | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (inhalation) - Category 4<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1                                                                                                             |
| 2,4,6-tris(dimethylaminomethyl) phenol | ≤3        | ACUTE TOXICITY (oral) - Category 4<br>SKIN CORROSION - Category 1C<br>SERIOUS EYE DAMAGE - Category 1                                                                                                                                                                                                                       |
| toluene                                | ≤0.3      | FLAMMABLE LIQUIDS - Category 2<br>SKIN IRRITATION - Category 2<br>TOXIC TO REPRODUCTION - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1                               |

SARA 313

## Section 15. Regulatory information

|                                 | Product name | CAS number | %         |
|---------------------------------|--------------|------------|-----------|
| Form R - Reporting requirements | xylene       | 1330-20-7  | ≥25 - ≤50 |
|                                 | butan-1-ol   | 71-36-3    | ≤10       |
|                                 | ethylbenzene | 100-41-4   | ≤10       |
| Supplier notification           | xylene       | 1330-20-7  | ≥25 - ≤50 |
|                                 | butan-1-ol   | 71-36-3    | ≤10       |
|                                 | ethylbenzene | 100-41-4   | ≤10       |

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

|                            |                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------|
| <b>Massachusetts</b>       | : The following components are listed: XYLENE; DIMETHYLBENZENE; N-BUTYL ALCOHOL     |
| <b>New York</b>            | : The following components are listed: Xylene mixed; Butyl alcohol                  |
| <b>New Jersey</b>          | : The following components are listed: XYLENES; BENZENE, DIMETHYL-; n-BUTYL ALCOHOL |
| <b>Pennsylvania</b>        | : The following components are listed: BENZENE, DIMETHYL-; 1-BUTANOL                |
| <b>California Prop. 65</b> |                                                                                     |

 **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name | No significant risk level | Maximum acceptable dosage level | Type of toxicity |
|-----------------|---------------------------|---------------------------------|------------------|
| ethylbenzene    | Yes.                      | -                               | Cancer           |
| toluene         | -                         | Yes.                            | Developmental    |

### Inventory list

|                                |                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Australia</b>               | : All components are listed or exempted.                                                                                  |
| <b>Canada</b>                  | : All components are listed or exempted.                                                                                  |
| <b>China</b>                   | : All components are listed or exempted.                                                                                  |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory:</b> Not determined.                                                                    |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL):</b> All components are listed or exempted.<br><b>Japan inventory (ISHL):</b> Not determined. |
| <b>New Zealand</b>             | : Not determined.                                                                                                         |
| <b>Philippines</b>             | : All components are listed or exempted.                                                                                  |
| <b>Republic of Korea</b>       | : All components are listed or exempted.                                                                                  |
| <b>Taiwan</b>                  | : Not determined.                                                                                                         |
| <b>Thailand</b>                | : Not determined.                                                                                                         |
| <b>Turkey</b>                  | : Not determined.                                                                                                         |
| <b>United States</b>           | : All components are active or exempted.                                                                                  |
| <b>Viet Nam</b>                | : Not determined.                                                                                                         |

## Section 16. Other information

### Procedure used to derive the classification

| Classification                                                                                                                                                                                                                                                                                                      | Justification                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>SERIOUS EYE DAMAGE - Category 1<br>CARCINOGENICITY - Category 2<br>TOXIC TO REPRODUCTION - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

|                                       |             |                |       |
|---------------------------------------|-------------|----------------|-------|
| <b>Date of issue/Date of revision</b> | : 8/12/2024 | <b>Version</b> | : 2   |
| <b>Date of previous issue</b>         | : 6/14/2024 |                | 17/18 |

Section 16. Other information

|                                                                 |                    |
|-----------------------------------------------------------------|--------------------|
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | Calculation method |
|-----------------------------------------------------------------|--------------------|

History

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of printing                | : 10/7/2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Date of issue/ Date of revision | : 8/12/2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Date of previous issue          | : 6/14/2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Version                         | : 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Key to abbreviations            | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>N/A = Not available<br>SGG = Segregation Group<br>UN = United Nations |

Indicates information that has changed from previously issued version.

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws. Any person using this product must determine for themselves, by preliminary tests or otherwise, the suitability of this product for their purposes. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. The application, use and processing of AkzoNobel's products and the products manufactured by Buyer on the basis of AkzoNobel's technical advice are beyond AkzoNobel's control and, therefore, entirely Buyer's own responsibility. AkzoNobel makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

IA\_413

## SAFETY DATA SHEET

Hi Temp Aluminized Epoxy Coating 4002A21M

### Section 1. Identification

**GHS product identifier** : Hi Temp Aluminized Epoxy Coating 4002A21M  
**SDS code** : 003415

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

| Identified uses      |
|----------------------|
| Industrial use       |
| Uses advised against |
| All other uses       |

#### Supplier's details

International Paint LLC  
1 East Water Street  
Waukegan, IL 60085  
USA  
Tel. 1 847 623 4200  
Email: customer.service@akzonobel.com

Akzo Nobel Coatings Ltd.  
110 Woodbine Downs Blvd.  
Unit #4 Etobicoke, Ontario  
Canada M9W 5S6  
+1 (800) 618-1010

**Importer** : Cía. Mexicana de Pinturas International  
S.A. de C.V., Carretera Anillo Periférico,  
No Ext 205, No Interior A, Colonia HDA S JOSE, Garcia, Garcia, CP 66000, Nuevo  
Leon.  
RFC: ANA9510267C4

**Emergency telephone number (with hours of operation)** : CHEMTREC +1 (800) 424-9300 (Inside the US)  
CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)

### 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 IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

#### GHS label elements

|                                       |             |                |      |
|---------------------------------------|-------------|----------------|------|
| <b>Date of issue/Date of revision</b> | : 8/12/2024 | <b>Version</b> | : 2  |
| <b>Date of previous issue</b>         | : 6/14/2024 |                | 1/19 |

Section 2. Hazards identification

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms                | :<br>                                                                                                                                                                                                                                                                                                                                                                                 |
| Signal word                      | : Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hazard statements                | : Highly flammable liquid and vapor.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>May cause drowsiness or dizziness.<br>Suspected of causing cancer.<br>Causes damage to organs through prolonged or repeated exposure.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Precautionary statements</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Prevention                       | : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, sparks and hot surfaces. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. 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                         | : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. |
| Storage                          | : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Disposal                         | : Dispose of contents and container in accordance with all local, regional, national or international regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hazards not otherwise classified | : None known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Section 3. Composition/information on ingredients

|                   |           |
|-------------------|-----------|
| Substance/mixture | : Mixture |
|-------------------|-----------|

| Ingredient name                                                                        | %         | CAS number |
|----------------------------------------------------------------------------------------|-----------|------------|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin                            | ≥10 - ≤25 | 25068-38-6 |
| Aluminium powder (stabilized)                                                          | ≥10 - ≤25 | 7429-90-5  |
| n-butyl acetate                                                                        | ≥10 - ≤25 | 123-86-4   |
| Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000 | ≥10 - ≤25 | 25068-38-6 |
| butanone                                                                               | ≤10       | 78-93-3    |
| Stoddard solvent                                                                       | ≤10       | 8052-41-3  |
| xylene                                                                                 | ≤5        | 1330-20-7  |
| 4-methylpentan-2-one                                                                   | ≤3        | 108-10-1   |
| ethylbenzene                                                                           | <1        | 100-41-4   |

|                                |             |             |
|--------------------------------|-------------|-------------|
| Date of issue/Date of revision | : 8/12/2024 | Version : 2 |
| Date of previous issue         | : 6/14/2024 | 2/19        |

### Section 3. Composition/information on ingredients

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 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

- |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Inhalation</b>   | : 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. |
| <b>Skin contact</b> | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.                                                                                                                                                                                                                                                                                                                                       |
| <b>Ingestion</b>    | : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.   |

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

- |                     |                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Causes serious eye irritation.                                                        |
| <b>Inhalation</b>   | : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |
| <b>Skin contact</b> | : Causes skin irritation. May cause an allergic skin reaction.                          |
| <b>Ingestion</b>    | : Can cause central nervous system (CNS) depression.                                    |

##### Over-exposure signs/symptoms

- |                     |                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness                                                    |
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>redness                                                                        |
| <b>Ingestion</b>    | : No specific data.                                                                                                                           |

## Section 4. First aid measures

### 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.

**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.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : 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

Date of issue/Date of revision : 8/12/2024

Date of previous issue : 6/14/2024

Version : 2

4/19



Section 6. Accidental release measures

- 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. 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. Remove contaminated clothing and protective equipment before entering eating areas. Ensure spraying away from persons. Avoid inhalation of vapor, spray or mist. 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

| Ingredient name                                                                                                 | Exposure limits                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin<br>Aluminium powder (stabilized)<br>n-butyl acetate | None.<br>None.<br><b>NIOSH REL (United States, 10/2020).</b><br>STEL: 950 mg/m³ 15 minutes.<br>STEL: 200 ppm 15 minutes.<br>TWA: 710 mg/m³ 10 hours.<br>TWA: 150 ppm 10 hours.<br><b>OSHA PEL (United States, 5/2018).</b><br>TWA: 710 mg/m³ 8 hours.<br>TWA: 150 ppm 8 hours. |

## Section 8. Exposure controls/personal protection

Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700  
<mol weight < 1000  
butanone

Stoddard solvent

xylene

### OSHA PEL 1989 (United States, 3/1989).

STEL: 950 mg/m<sup>3</sup> 15 minutes.

STEL: 200 ppm 15 minutes.

TWA: 710 mg/m<sup>3</sup> 8 hours.

TWA: 150 ppm 8 hours.

### ACGIH TLV (United States, 1/2022). [Butyl acetates]

STEL: 150 ppm 15 minutes.

TWA: 50 ppm 8 hours.

None.

### ACGIH TLV (United States, 1/2022). Notes: Substances for which there is a Biological Exposure Index or Indices

STEL: 885 mg/m<sup>3</sup> 15 minutes.

STEL: 300 ppm 15 minutes.

TWA: 590 mg/m<sup>3</sup> 8 hours.

TWA: 200 ppm 8 hours.

### NIOSH REL (United States, 10/2020).

STEL: 885 mg/m<sup>3</sup> 15 minutes.

STEL: 300 ppm 15 minutes.

TWA: 590 mg/m<sup>3</sup> 10 hours.

TWA: 200 ppm 10 hours.

### OSHA PEL (United States, 5/2018).

TWA: 590 mg/m<sup>3</sup> 8 hours.

TWA: 200 ppm 8 hours.

### OSHA PEL 1989 (United States, 3/1989).

STEL: 885 mg/m<sup>3</sup> 15 minutes.

STEL: 300 ppm 15 minutes.

TWA: 590 mg/m<sup>3</sup> 8 hours.

TWA: 200 ppm 8 hours.

### ACGIH TLV (United States, 1/2022).

TWA: 100 ppm 8 hours.

TWA: 525 mg/m<sup>3</sup> 8 hours.

### OSHA PEL 1989 (United States, 3/1989).

TWA: 100 ppm 8 hours.

TWA: 525 mg/m<sup>3</sup> 8 hours.

### NIOSH REL (United States, 10/2020).

TWA: 350 mg/m<sup>3</sup> 10 hours.

CEIL: 1800 mg/m<sup>3</sup> 15 minutes.

### OSHA PEL (United States, 5/2018).

TWA: 500 ppm 8 hours.

TWA: 2900 mg/m<sup>3</sup> 8 hours.

### ACGIH TLV (United States, 1/2022). [xylene] Notes: 1996 Adoption Substances for which there is a Biological Exposure Index or Indices Refers to Appendix A -- Carcinogens.

STEL: 651 mg/m<sup>3</sup> 15 minutes.

TWA: 434 mg/m<sup>3</sup> 8 hours.

TWA: 20 ppm 8 hours.

### OSHA PEL (United States, 5/2018).

#### [Xylenes]

TWA: 435 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

### OSHA PEL 1989 (United States, 3/1989).

#### [Xylenes (o-, m-, p-isomers)]

STEL: 655 mg/m<sup>3</sup> 15 minutes.

STEL: 150 ppm 15 minutes.

TWA: 435 mg/m<sup>3</sup> 8 hours.

## Section 8. Exposure controls/personal protection

4-methylpentan-2-one

TWA: 100 ppm 8 hours.  
**ACGIH TLV (United States, 1/2022). Notes: Substances for which there is a Biological Exposure Index or Indices**

STEL: 75 ppm 15 minutes.

TWA: 20 ppm 8 hours.

**NIOSH REL (United States, 10/2020).**

STEL: 300 mg/m<sup>3</sup> 15 minutes.

STEL: 75 ppm 15 minutes.

TWA: 205 mg/m<sup>3</sup> 10 hours.

TWA: 50 ppm 10 hours.

**OSHA PEL (United States, 5/2018).**

TWA: 410 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

**OSHA PEL 1989 (United States, 3/1989).**

STEL: 300 mg/m<sup>3</sup> 15 minutes.

STEL: 75 ppm 15 minutes.

TWA: 205 mg/m<sup>3</sup> 8 hours.

TWA: 50 ppm 8 hours.

ethylbenzene

**ACGIH TLV (United States, 1/2022).**

**Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption.**

TWA: 20 ppm 8 hours.

**NIOSH REL (United States, 10/2020).**

STEL: 545 mg/m<sup>3</sup> 15 minutes.

STEL: 125 ppm 15 minutes.

TWA: 435 mg/m<sup>3</sup> 10 hours.

TWA: 100 ppm 10 hours.

**OSHA PEL (United States, 5/2018).**

TWA: 435 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

**OSHA PEL 1989 (United States, 3/1989).**

STEL: 545 mg/m<sup>3</sup> 15 minutes.

STEL: 125 ppm 15 minutes.

TWA: 435 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

### 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.

## Section 8. Exposure controls/personal protection

- 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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid.
- Color** : Silver.
- Odor** : Solvent.
- Odor threshold** : Not available.
- pH** : Not applicable. [DIN EN 1262]
- Melting point/freezing point** : Not available.
- Boiling point, initial boiling point, and boiling range** : 80°C (176°F)
- Flash point** : Closed cup: -4°C (24.8°F) [Pensky-Martens]
- Flammability** : Not available.
- Lower and upper explosion limit** : Greatest known range: Lower: 1.8% Upper: 11.5% (butanone)
- Vapor pressure** :

| Ingredient name      | Vapor Pressure at 20°C |      |                | Vapor pressure at 50°C |     |        |
|----------------------|------------------------|------|----------------|------------------------|-----|--------|
|                      | mm Hg                  | kPa  | Method         | mm Hg                  | kPa | Method |
| butanone             | 78.76                  | 10.5 |                |                        |     |        |
| 4-methylpentan-2-one | 15.75                  | 2.1  |                |                        |     |        |
| n-butyl acetate      | 11.25                  | 1.5  | DIN EN 13016-2 |                        |     |        |

- Relative vapor density** : Not available.
- Relative density** : 1.166 [ISO 8130-2/-3]
- Solubility(ies)** :

## Section 9. Physical and chemical properties and safety characteristics

Not available.

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

**Auto-ignition temperature** :

| Ingredient name  | °C         | °F         | Method  |
|------------------|------------|------------|---------|
| Stoddard solvent | 230 to 240 | 446 to 464 | EU A.15 |
| butanone         | 404        | 759.2      |         |
| n-butyl acetate  | 415        | 779        |         |

**Decomposition temperature** : Not available.

**Viscosity** : Kinematic: 214 mm<sup>2</sup>/s (214 cSt) [DIN EN ISO 3219]

**Weight Volatiles** : 39.42% (w/w)

**Volume Volatiles** : 54.92 % (v/v)

**Weight Solids** : 60.58 % (w/w)

**Volume Solids** : 45.08 % (v/v)

**Regulatory VOC** : 3.8 lbs/gal 460 g/l minus water and exempt solvents

**VOC Actual** : 3.8 lbs/gal 460 g/l

### Particle characteristics

**Median particle size** : Not applicable.

**Percentage of particles** : 0

**with aerodynamic diameter**  
**≤ 10 µm**

## 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.

**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

## Section 11. Toxicological information

| Product/ingredient name | Result                | Species               | Dose                    | Exposure |
|-------------------------|-----------------------|-----------------------|-------------------------|----------|
| n-butyl acetate         | LC50 Inhalation Gas.  | Rat                   | 390 ppm                 | 4 hours  |
|                         | LC50 Inhalation Vapor | Mouse                 | 6 g/m <sup>3</sup>      | 2 hours  |
|                         | LC50 Inhalation Vapor | Rat                   | 390 ppm                 | 4 hours  |
|                         | LD50 Dermal           | Rabbit                | >17600 mg/kg            | -        |
|                         | LD50 Intraperitoneal  | Mouse                 | 1230 mg/kg              | -        |
|                         | LD50 Oral             | Guinea pig            | 4700 mg/kg              | -        |
|                         | LD50 Oral             | Mouse                 | 6 g/kg                  | -        |
|                         | LD50 Oral             | Rabbit                | 3200 mg/kg              | -        |
|                         | LD50 Oral             | Rat                   | 10768 mg/kg             | -        |
| butanone                | LC50 Inhalation Vapor | Mouse                 | 32 g/m <sup>3</sup>     | 4 hours  |
|                         | LC50 Inhalation Vapor | Rat                   | 23500 mg/m <sup>3</sup> | 8 hours  |
|                         | LD50 Dermal           | Rabbit                | 6480 mg/kg              | -        |
|                         | LD50 Intraperitoneal  | Guinea pig            | 2 g/kg                  | -        |
|                         | LD50 Intraperitoneal  | Mouse                 | 616 mg/kg               | -        |
|                         | LD50 Intraperitoneal  | Rat                   | 607 mg/kg               | -        |
|                         | LD50 Oral             | Mouse                 | 3000 mg/kg              | -        |
|                         | LD50 Oral             | Rat                   | 2737 mg/kg              | -        |
|                         | LD50 Oral             | Rat                   | 2737 mg/kg              | -        |
| xylene                  | LC50 Inhalation Gas.  | Rat                   | 5000 ppm                | 4 hours  |
|                         | LC50 Inhalation Gas.  | Rat                   | 6700 ppm                | 4 hours  |
|                         | LC50 Inhalation Gas.  | Rat                   | 6670 ppm                | 4 hours  |
|                         | LD50 Intraperitoneal  | Mouse                 | 1548 mg/kg              | -        |
|                         | LD50 Intraperitoneal  | Mouse                 | 1548 mg/kg              | -        |
|                         | LD50 Intraperitoneal  | Rat                   | 2459 mg/kg              | -        |
|                         | LD50 Oral             | Mouse                 | 2119 mg/kg              | -        |
|                         | LD50 Oral             | Rat                   | 4300 mg/kg              | -        |
|                         | LD50 Oral             | Rat                   | 4300 mg/kg              | -        |
| 4-methylpentan-2-one    | LD50 Subcutaneous     | Rat                   | 1700 mg/kg              | -        |
|                         | LC50 Inhalation Vapor | Rat - Male,<br>Female | 11.6 mg/l               | 4 hours  |
|                         | LD50 Intraperitoneal  | Guinea pig            | 800 mg/kg               | -        |
|                         | LD50 Intraperitoneal  | Mouse                 | 268 mg/kg               | -        |
|                         | LD50 Intraperitoneal  | Rat                   | 400 mg/kg               | -        |
|                         | LD50 Oral             | Guinea pig            | 1600 mg/kg              | -        |
|                         | LD50 Oral             | Mouse                 | 1900 mg/kg              | -        |
|                         | LD50 Oral             | Mouse                 | 2850 mg/kg              | -        |
|                         | LD50 Oral             | Rat                   | 2080 mg/kg              | -        |
| ethylbenzene            | LD50 Oral             | Rat                   | 4600 mg/kg              | -        |
|                         | LC50 Inhalation Gas.  | Rabbit                | 4000 ppm                | 4 hours  |
|                         | LC50 Inhalation Vapor | Mouse                 | 35500 mg/m <sup>3</sup> | 2 hours  |
|                         | LC50 Inhalation Vapor | Rat                   | 55000 mg/m <sup>3</sup> | 2 hours  |
|                         | LD50 Dermal           | Rabbit                | >5000 mg/kg             | -        |
|                         | LD50 Dermal           | Rabbit                | 17800 uL/kg             | -        |
|                         | LD50 Intraperitoneal  | Mouse                 | 2624 uL/kg              | -        |
|                         | LD50 Oral             | Rat                   | 3500 mg/kg              | -        |
|                         | LD50 Oral             | Rat                   | 3500 mg/kg              | -        |

### Irritation/Corrosion

| Product/ingredient name                                     | Result                   | Species | Score | Exposure        | Observation |
|-------------------------------------------------------------|--------------------------|---------|-------|-----------------|-------------|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | Eyes - Mild irritant     | Rabbit  | -     | 100 mg          | -           |
|                                                             | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 UI | -           |
|                                                             | Skin - Severe irritant   | Rabbit  | -     | 24 hours 2 mg   | -           |
| n-butyl acetate                                             | Eyes - Moderate irritant | Rabbit  | -     | 100 mg          | -           |
|                                                             | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
| butanone                                                    | Skin - Mild irritant     | Rabbit  | -     | 24 hours 14 mg  | -           |
|                                                             | Skin - Mild irritant     | Rabbit  | -     | 24 hours 402 mg | -           |

## Section 11. Toxicological information

|                            |                          |        |   |                    |   |
|----------------------------|--------------------------|--------|---|--------------------|---|
| Stoddard solvent<br>xylene | Skin - Moderate irritant | Rabbit | - | mg<br>24 hours 500 | - |
|                            | Eyes - Moderate irritant | Rabbit | - | mg<br>24 hours 500 | - |
|                            | Eyes - Mild irritant     | Rabbit | - | mg<br>87 mg        | - |
|                            | Eyes - Severe irritant   | Rabbit | - | 24 hours 5<br>mg   | - |
| 4-methylpentan-2-one       | Skin - Mild irritant     | Rat    | - | 8 hours 60 UI      | - |
|                            | Skin - Moderate irritant | Rabbit | - | 100 %              | - |
|                            | Skin - Moderate irritant | Rabbit | - | 24 hours 500<br>mg | - |
|                            | Eyes - Moderate irritant | Rabbit | - | 24 hours 100<br>UI | - |
| ethylbenzene               | Eyes - Severe irritant   | Rabbit | - | 40 mg              | - |
|                            | Skin - Mild irritant     | Rabbit | - | 24 hours 500<br>mg | - |
|                            | Eyes - Severe irritant   | Rabbit | - | 500 mg             | - |
|                            | Skin - Mild irritant     | Rabbit | - | 24 hours 15<br>mg  | - |

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| xylene                  | -    | 3    | -   |
| 4-methylpentan-2-one    | -    | 2B   | -   |
| ethylbenzene            | -    | 2B   | -   |

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Name                 | Category   | Route of exposure | Target organs                |
|----------------------|------------|-------------------|------------------------------|
| n-butyl acetate      | Category 3 | -                 | Narcotic effects             |
| butanone             | Category 3 | -                 | Narcotic effects             |
| Stoddard solvent     | Category 3 | -                 | Narcotic effects             |
| xylene               | Category 3 | -                 | Respiratory tract irritation |
| 4-methylpentan-2-one | Category 3 | -                 | Narcotic effects             |

### Specific target organ toxicity (repeated exposure)

| Name             | Category   | Route of exposure | Target organs  |
|------------------|------------|-------------------|----------------|
| Stoddard solvent | Category 1 | -                 | -              |
| ethylbenzene     | Category 2 | -                 | hearing organs |

### Aspiration hazard



## Section 11. Toxicological information

| Name             | Result                         |
|------------------|--------------------------------|
| Stoddard solvent | ASPIRATION HAZARD - Category 1 |
| xylene           | 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 irritation.

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

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

**Ingestion** : Can cause central nervous system (CNS) depression.

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

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

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

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

**Ingestion** : No specific data.

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

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** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

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

**Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

## Section 11. Toxicological information

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Product as-supplied     | N/A          | 35916.7        | 163257.6                 | 506.9                      | N/A                                 |
| xylene                  | N/A          | 1100           | 5000                     | N/A                        | N/A                                 |
| 4-methylpentan-2-one    | N/A          | N/A            | N/A                      | 11                         | N/A                                 |
| ethylbenzene            | N/A          | N/A            | N/A                      | 11                         | N/A                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name       | Result                               | Species                                                                | Exposure |
|-------------------------------|--------------------------------------|------------------------------------------------------------------------|----------|
| Aluminium powder (stabilized) | Acute LC50 38000 µg/l Fresh water    | Daphnia - Daphnia magna                                                | 48 hours |
|                               | Acute LC50 1130 µg/l Fresh water     | Fish - Cobitidae - Fry                                                 | 96 hours |
|                               | Acute LC50 260 µg/l Fresh water      | Fish - Ctenopharyngodon idella - Fry                                   | 96 hours |
|                               | Acute LC50 310 µg/l Fresh water      | Fish - Oncorhynchus mykiss - Embryo                                    | 96 hours |
|                               | Acute LC50 160 µg/l Fresh water      | Fish - Oncorhynchus mykiss - Embryo                                    | 96 hours |
|                               | Acute LC50 120 µg/l Fresh water      | Fish - Oncorhynchus mykiss - Embryo                                    | 96 hours |
|                               | Chronic NOEC 9 mg/l Fresh water      | Aquatic plants - Ceratophyllum demersum                                | 3 days   |
|                               | Chronic NOEC 9 mg/l Fresh water      | Aquatic plants - Ceratophyllum demersum                                | 3 days   |
| n-butyl acetate               | Acute LC50 32 mg/l Marine water      | Crustaceans - Artemia salina                                           | 48 hours |
|                               | Acute LC50 62000 µg/l Fresh water    | Fish - Danio rerio                                                     | 96 hours |
|                               | Acute LC50 100000 µg/l Fresh water   | Fish - Lepomis macrochirus                                             | 96 hours |
|                               | Acute LC50 185000 µg/l Marine water  | Fish - Menidia beryllina                                               | 96 hours |
|                               | Acute LC50 18000 µg/l Fresh water    | Fish - Pimephales promelas                                             | 96 hours |
| butanone                      | Acute EC50 >500 mg/l Fresh water     | Algae - Pseudokirchneriella subcapitata                                | 96 hours |
|                               | Acute EC50 >500000 µg/l Marine water | Algae - Skeletonema costatum                                           | 96 hours |
|                               | Acute EC50 5091000 µg/l Fresh water  | Daphnia - Daphnia magna - Larvae                                       | 48 hours |
|                               | Acute LC50 5600 ppm Fresh water      | Fish - Gambusia affinis - Adult                                        | 96 hours |
| xylene                        | Acute LC50 3220000 µg/l Fresh water  | Fish - Pimephales promelas                                             | 96 hours |
|                               | Acute EC50 90 mg/l Fresh water       | Crustaceans - Cypris subglobosa                                        | 48 hours |
|                               | Acute LC50 8.5 ppm Marine water      | Crustaceans - Palaemonetes pugio - Adult                               | 48 hours |
|                               | Acute LC50 8500 µg/l Marine water    | Crustaceans - Palaemonetes pugio                                       | 48 hours |
|                               | Acute LC50 16940 µg/l Fresh water    | Fish - Carassius auratus                                               | 96 hours |
|                               | Acute LC50 15700 µg/l Fresh water    | Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| 4-methylpentan-2-one          | Acute LC50 20870 µg/l Fresh water    | Fish - Lepomis macrochirus                                             | 96 hours |
|                               | Acute LC50 19000 µg/l Fresh water    | Fish - Lepomis macrochirus                                             | 96 hours |
|                               | Acute LC50 13400 µg/l Fresh water    | Fish - Pimephales promelas                                             | 96 hours |
|                               | Acute LC50 505000 µg/l Fresh water   | Fish - Pimephales promelas                                             | 96 hours |
|                               | Acute LC50 540000 µg/l Fresh water   | Fish - Pimephales promelas                                             | 96 hours |
|                               | Acute LC50 537000 µg/l Fresh water   | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
|                               | Chronic NOEC 78 mg/l Fresh water     | Daphnia - Daphnia magna                                                | 21 days  |

Date of issue/Date of revision : 8/12/2024

Version : 2

Date of previous issue : 6/14/2024

13/19

## Section 12. Ecological information

|              |                                    |                                                                     |          |
|--------------|------------------------------------|---------------------------------------------------------------------|----------|
| ethylbenzene | Chronic NOEC 168 mg/l Fresh water  | Fish - Pimephales promelas - Embryo                                 | 33 days  |
|              | Acute EC50 4600 µg/l Fresh water   | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|              | Acute EC50 5400 µg/l Fresh water   | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|              | Acute EC50 3600 µg/l Fresh water   | Algae - Pseudokirchneriella subcapitata                             | 96 hours |
|              | Acute EC50 4900 µg/l Marine water  | Algae - Skeletonema costatum                                        | 72 hours |
|              | Acute EC50 7700 µg/l Marine water  | Algae - Skeletonema costatum                                        | 96 hours |
|              | Acute EC50 6.53 mg/l Marine water  | Crustaceans - Artemia sp. - Nauplii                                 | 48 hours |
|              | Acute EC50 13.3 mg/l Marine water  | Crustaceans - Artemia sp. - Nauplii                                 | 48 hours |
|              | Acute EC50 2.97 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|              | Acute EC50 2.93 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|              | Acute LC50 8.78 mg/l Marine water  | Crustaceans - Artemia sp. - Nauplii                                 | 48 hours |
|              | Acute LC50 13.3 mg/l Marine water  | Crustaceans - Artemia sp. - Nauplii                                 | 48 hours |
|              | Acute LC50 40000 µg/l Marine water | Crustaceans - Cancer magister - Zoea                                | 48 hours |
|              | Acute LC50 18.4 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|              | Acute LC50 13.9 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|              | Acute LC50 75000 µg/l Fresh water  | Daphnia - Daphnia magna                                             | 48 hours |
|              | Acute LC50 5100 µg/l Marine water  | Fish - Menidia menidia                                              | 96 hours |
|              | Acute LC50 4.3 ul/L Marine water   | Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
|              | Acute LC50 4200 µg/l Fresh water   | Fish - Oncorhynchus mykiss                                          | 96 hours |
|              | Acute LC50 9090 µg/l Fresh water   | Fish - Pimephales promelas                                          | 96 hours |
|              | Acute LC50 9100 µg/l Fresh water   | Fish - Pimephales promelas                                          | 96 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name                                     | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------------------------------------------|--------------------|-------------|-----------|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | 2.64 to 3.78       | 31          | low       |
| n-butyl acetate                                             | 2.3                | -           | low       |
| butanone                                                    | 0.3                | -           | low       |
| Stoddard solvent                                            | 3.16 to 7.06       | -           | high      |
| xylene                                                      | 3.12               | 8.1 to 25.9 | low       |
| 4-methylpentan-2-one                                        | 1.9                | -           | low       |
| ethylbenzene                                                | 3.6                | -           | 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.

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

| Ingredient           | CAS #     | Status | Reference number |
|----------------------|-----------|--------|------------------|
| butanone             | 78-93-3   | Listed | U159             |
| xylene               | 1330-20-7 | Listed | U239             |
| 4-methylpentan-2-one | 108-10-1  | Listed | U161             |

## Section 14. Transport information

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

|                            | DOT<br>Classification                                                                    | TDG<br>Classification                                                                                                                                                        | Mexico<br>Classification                                                                 | IMDG                                                                                                                                                                             | IATA                                                                                       |
|----------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| UN number                  | UN1263                                                                                   | UN1263                                                                                                                                                                       | UN1263                                                                                   | UN1263                                                                                                                                                                           | UN1263                                                                                     |
| UN proper shipping name    | PAINT                                                                                    | PAINT                                                                                                                                                                        | PAINT                                                                                    | PAINT                                                                                                                                                                            | PAINT                                                                                      |
| Transport hazard class(es) | 3<br> | 3<br>  | 3<br> | 3<br>  | 3<br> |
| Packing group              | II                                                                                       | II                                                                                                                                                                           | II                                                                                       | II                                                                                                                                                                               | II                                                                                         |
| Environmental hazards      | No.                                                                                      | Yes.                                                                                                                                                                         | Yes. The environmentally hazardous substance mark is not required.                       | Marine Pollutant (s): reaction product: bisphenol-A-(epichlorhydrin); epoxy resin, Stoddard solvent                                                                              | Yes. The environmentally hazardous substance mark is not required.                         |

### Additional information

- DOT Classification** : **Reportable quantity** 3265.2 lbs / 1482.4 kg [335.85 gal / 1271.3 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.
- IMDG** : **Emergency schedules** F-E, \_S-E\_  
The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Section 14. Transport information

- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
- 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.
- Transport in bulk according to IMO instruments** : Not available.

Section 15. Regulatory information

- U.S. Federal regulations** : **TSCA 5(a)2 final significant new use rules:** No products found.  
**TSCA 5(e) substance consent order:** No products found.  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are active or exempted.  
**Clean Water Act (CWA) 307:** ethylbenzene; toluene  
**Clean Water Act (CWA) 311:** n-butyl acetate; xylene; ethylbenzene; toluene
- Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Not listed
- 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 IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Composition/information on ingredients

| Name                                                        | %         | Classification                                                                                                           |
|-------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
| reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | ≥10 - ≤25 | SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SKIN SENSITIZATION - Category 1                          |
| Aluminium powder (stabilized)                               | ≥10 - ≤25 | FLAMMABLE SOLIDS - Category 1<br>SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2 |
| n-butyl acetate                                             | ≥10 - ≤25 | FLAMMABLE LIQUIDS - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3       |

## Section 15. Regulatory information

|                                                                                                 |           |                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000 butanone | ≥10 - ≤25 | SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SKIN SENSITIZATION - Category 1                                                                                                                                                                                                                      |
|                                                                                                 | ≤10       | FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3                                                                                                                                                                   |
| Stoddard solvent                                                                                | ≤10       | FLAMMABLE LIQUIDS - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1                                                                                                                                |
| xylene                                                                                          | ≤5        | ASPIRATION HAZARD - Category 1<br>FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| 4-methylpentan-2-one                                                                            | ≤3        | ASPIRATION HAZARD - Category 1<br>FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (inhalation) - Category 4<br>EYE IRRITATION - Category 2A<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3                                                     |
| ethylbenzene                                                                                    | <1        | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (inhalation) - Category 4<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1                                                                                                      |

### SARA 313

|                                        | Product name                  | CAS number | %         |
|----------------------------------------|-------------------------------|------------|-----------|
| <b>Form R - Reporting requirements</b> | Aluminium powder (stabilized) | 7429-90-5  | ≥10 - ≤25 |
|                                        | xylene                        | 1330-20-7  | ≤5        |
|                                        | 4-methylpentan-2-one          | 108-10-1   | ≤3        |
|                                        | ethylbenzene                  | 100-41-4   | <1        |
| <b>Supplier notification</b>           | Aluminium powder (stabilized) | 7429-90-5  | ≥10 - ≤25 |
|                                        | xylene                        | 1330-20-7  | ≤5        |
|                                        | 4-methylpentan-2-one          | 108-10-1   | ≤3        |
|                                        | ethylbenzene                  | 100-41-4   | <1        |

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: ALUMINUM; BUTYL ACETATE; METHYL ETHYL KETONE; STODDARD SOLVENT; XYLENE; DIMETHYLBENZENE; METHYL ISOBUTYL KETONE

#### New York

: The following components are listed: Butyl acetate; Methyl ethyl ketone; Xylene mixed; Methyl isobutyl ketone

#### New Jersey

: The following components are listed: ALUMINUM; n-BUTYL ACETATE; METHYL ETHYL KETONE; STODDARD SOLVENT; XYLENES; BENZENE, DIMETHYL-; METHYL ISOBUTYL KETONE

#### Pennsylvania

: The following components are listed: ACETIC ACID, BUTYL ESTER; 2-BUTANONE; STODDARD SOLVENT; BENZENE, DIMETHYL-; 2-PENTANONE, 4-METHYL-

### California Prop. 65

|                                |             |             |
|--------------------------------|-------------|-------------|
| Date of issue/Date of revision | : 8/12/2024 | Version : 2 |
| Date of previous issue         | : 6/14/2024 | 17/19       |



## Section 15. Regulatory information

**⚠ WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name       | No significant risk level | Maximum acceptable dosage level | Type of toxicity      |
|-----------------------|---------------------------|---------------------------------|-----------------------|
| 4-methylpentan-2-one  | -                         | -                               | Cancer, Developmental |
| ethylbenzene          | Yes.                      | -                               | Cancer                |
| toluene               | -                         | Yes.                            | Developmental         |
| phenyl glycidyl ether | Yes.                      | -                               | Cancer                |

### Inventory list

|                                |                                                                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Australia</b>               | : All components are listed or exempted.                                                                                                         |
| <b>Canada</b>                  | : All components are listed or exempted.                                                                                                         |
| <b>China</b>                   | : All components are listed or exempted.                                                                                                         |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory:</b> Not determined.                                                                                           |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL):</b> All components are listed or exempted.<br><b>Japan inventory (ISHL):</b> All components are listed or exempted. |
| <b>New Zealand</b>             | : All components are listed or exempted.                                                                                                         |
| <b>Philippines</b>             | : All components are listed or exempted.                                                                                                         |
| <b>Republic of Korea</b>       | : All components are listed or exempted.                                                                                                         |
| <b>Taiwan</b>                  | : All components are listed or exempted.                                                                                                         |
| <b>Thailand</b>                | : Not determined.                                                                                                                                |
| <b>Turkey</b>                  | : Not determined.                                                                                                                                |
| <b>United States</b>           | : All components are active or exempted.                                                                                                         |
| <b>Viet Nam</b>                | : Not determined.                                                                                                                                |

## Section 16. Other information

### Procedure used to derive the classification

| Classification                                                                   | Justification         |
|----------------------------------------------------------------------------------|-----------------------|
| FLAMMABLE LIQUIDS - Category 2                                                   | On basis of test data |
| SKIN IRRITATION - Category 2                                                     | Calculation method    |
| EYE IRRITATION - Category 2A                                                     | Calculation method    |
| SKIN SENSITIZATION - Category 1                                                  | Calculation method    |
| CARCINOGENICITY - Category 2                                                     | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1                  | Calculation method    |

### History

|                                        |             |
|----------------------------------------|-------------|
| <b>Date of printing</b>                | : 10/7/2024 |
| <b>Date of issue/ Date of revision</b> | : 8/12/2024 |
| <b>Date of previous issue</b>          | : 6/14/2024 |
| <b>Version</b>                         | : 2         |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Key to abbreviations</b> | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>N/A = Not available |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                       |             |                |       |
|---------------------------------------|-------------|----------------|-------|
| <b>Date of issue/Date of revision</b> | : 8/12/2024 | <b>Version</b> | : 2   |
| <b>Date of previous issue</b>         | : 6/14/2024 |                | 18/19 |



Section 16. Other information

SGG = Segregation Group  
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws. Any person using this product must determine for themselves, by preliminary tests or otherwise, the suitability of this product for their purposes. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. The application, use and processing of AkzoNobel's products and the products manufactured by Buyer on the basis of AkzoNobel's technical advice are beyond AkzoNobel's control and, therefore, entirely Buyer's own responsibility. AkzoNobel makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

IA\_413