

This is a kit that contains the following components:

DURAL 452 LV PART A

DURAL 452 LV 2:1 PART B



Version: 2.2 Revision Date: 11/17/2022

# SAFETY DATA SHEET

#### 1. Identification

#### Product identifier: DURAL 452 LV PART A Product Code: 002DL 03

#### Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110 US

#### Contact person: Telephone: Emergency telephone number:

EH&S Department 216-531-9222 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### **Hazard Classification**

| Health Hazards                    |             |
|-----------------------------------|-------------|
| Skin Corrosion/Irritation         | Category 2  |
| Serious Eye Damage/Eye Irritation | Category 2A |
| Skin sensitizer                   | Category 1  |
| Germ Cell Mutagenicity            | Category 2  |

#### **Unknown toxicity - Health**

| Acute toxicity, oral                     | 0 %     |
|--|---------|
| Acute toxicity, dermal                   | 0.14 %  |
| Acute toxicity, inhalation, vapor        | 100 %   |
| Acute toxicity, inhalation, dust or mist | 72.94 % |

#### **Environmental Hazards**

| Acute hazards to the aquatic   | Category 2 |
|--------------------------------|------------|
| environment                    |            |
| Chronic hazards to the aquatic | Category 2 |
| environment                    |            |

#### **Unknown toxicity - Environment**

| Acute hazards to the aquatic | 27.06 % |
|------------------------------|---------|
| environment                  |         |



Chronic hazards to the aquatic 0.14 % environment

#### Label Elements

| Hazard Symbol:                             |   |
|--|---|
|  | ¥2  |
| Signal Word:                               | Warning   |
| Hazard Statement:                          | Causes skin irritation.<br>Causes serious eye irritation.<br>May cause an allergic skin reaction.<br>Suspected of causing genetic defects.<br>Toxic to aquatic life with long lasting effects.  |
| Precautionary<br>Statements                |   |
| Prevention:                                | Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.   |
| Response:                                  | IF IN EYES: Rinse cautiously with water for several minutes. Remove<br>contact lenses, if present and easy to do. Continue rinsing. If eye irritation<br>persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of<br>soap and water. If skin irritation or rash occurs: Get medical<br>advice/attention. IF exposed or concerned: Get medical advice/attention.<br>Specific treatment (see on this label). Wash contaminated clothing before<br>reuse. Collect spillage. |
| Storage:                                   | Store locked up.  |
| Disposal:                                  | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.  |
| Hazard(s) not otherwise classified (HNOC): | None.   |

#### 3. Composition/information on ingredients

#### **Mixtures**



| Chemical Identity                    | CAS number | Content in percent (%)* |
|--------------------------------------|------------|-------------------------|
| Bisphenol A Polyglycidyl Ether Resin | 25068-38-6 | 50 - <100%              |
| o-Cresyl glycidyl ether              | 2210-79-9  | 25 - <50%               |
|                                      |            | 20 - Coo /8             |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

| Description of necessary first-aid measures       |  |  |
|---|--|--|
| Inhalation:                                       | Move to fresh air.   |  |
| Skin Contact:                                     | Get medical attention. Destroy or thoroughly clean contaminated<br>shoes. Immediately remove contaminated clothing and shoes and<br>wash skin with soap and plenty of water. If skin irritation or an allergic<br>skin reaction develops, get medical attention. |  |
| Eye contact:                                      | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.   |  |
| Ingestion:  | Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.   |  |
| Personal Protection for First-<br>aid Responders: | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |  |
| Most important symptoms/effe                      | cts, acute and delayed   |  |
| Symptoms:   | Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.  |  |
| Hazards:  | No data available.   |  |
| Indication of immediate medica                    | al attention and special treatment needed  |  |
| Treatment:  | Symptoms may be delayed.   |  |
| 5. Fire-fighting measures                         |  |  |
| General Fire Hazards:                             | No unusual fire or explosion hazards noted.  |  |
| Suitable (and unsuitable) exting                  | guishing media   |  |
| Suitable extinguishing media:                     | Use fire-extinguishing media appropriate for surrounding materials.  |  |
| Unsuitable extinguishing media:                   | Do not use water jet as an extinguisher, as this will spread the fire.   |  |
| Specific hazards arising from the chemical:       | During fire, gases hazardous to health may be formed.  |  |
| Special protective equipment a                    | and precautions for fire-fighters  |  |
| Special fire-fighting                             | No data available.   |  |

procedures:



**Special protective equipment** for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

# 6. Accidental release measures

| Personal precautions,<br>protective equipment and<br>emergency procedures: | See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. |
|--|---|
| Accidental release measures:   | In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.   |
| Methods and material for<br>containment and cleaning<br>up:                | Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.               |
| Environmental Precautions:   | Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.  |
| 7. Handling and storage  |   |
| Handling   |   |
| Technical measures (e.g. Local and general ventilation):                   | Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical  |

| and general ventilation, | ventilation or local exhaust ventilation may be required.  |
|--------------------------|--|
| Safe handling advice:    | Provide adequate ventilation. Wear appropriate personal protective<br>equipment. Observe good industrial hygiene practices.Wash hands<br>thoroughly after handling. Avoid contact with eyes. Do not handle until all<br>safety precautions have been read and understood. Obtain special<br>instructions before use. Use personal protective equipment as required.<br>Avoid contact with skin. Avoid contact with eyes, skin, and clothing. |

- Contact avoidance measures: No data available.
- **Hygiene measures:** Observe good industrial hygiene practices. Avoid contact with eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

#### Storage

| Safe storage conditions:  | Store locked up.   |
|---------------------------|--------------------|
| Safe packaging materials: | No data available. |

#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.

| Chemical name | Туре | Exposure Limit Values | Source  |
|---------------|------|-----------------------|---|
| Methanol      | TWA  | 200 ppm               | Canada. British Columbia OELs. (Occupational<br>Exposure Limits for Chemical Biological<br>Substances, Occupational Health and Safety<br>Regulation 296/97, as amended) (07 2007) |
| Methanol      | TWA  | 200 ppm               | Canada. Ontario OELs. (Control of Exposure to<br>Biological or Chemical Agents), as amended<br>(11 2010)  |
|               | STEL | 250 ppm               | Canada. British Columbia OELs. (Occupational<br>Exposure Limits for Chemical Biological<br>Substances, Occupational Health and Safety<br>Regulation 296/97, as amended) (07 2007) |
|               | STEL | 250 ppm               | Canada. Ontario OELs. (Control of Exposure to<br>Biological or Chemical Agents), as amended<br>(11 2010)  |
| Methanol      | STEL | 250 ppm 328 mg/m3     | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation respecting occupational health and<br>safety), as amended (09 2017)   |
|               | TWA  | 200 ppm 262 mg/m3     | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation respecting occupational health and<br>safety), as amended (09 2017)   |

#### None of the components have assigned exposure limits.

Appropriate Engineering Controls Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

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

| Eye/face protection:                | Wear safety glasses with side shields (or goggles).   |
|-------------------------------------|---|
| Skin Protection<br>Hand Protection: | Additional Information: Use suitable protective gloves if risk of skin contact.   |
| Skin and Body Protection:           | Wear suitable protective clothing. Wear chemical-resistant gloves,<br>footwear, and protective clothing appropriate for the risk of exposure.<br>Contact health and safety professional or manufacturer for specific<br>information.  |
| Respiratory Protection:             | In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.   |
| Hygiene measures:                   | Observe good industrial hygiene practices. Avoid contact with eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. |

#### 9. Physical and chemical properties

#### Appearance

| Physical state: | liquid    |
|-----------------|-----------|
| Form:           | liquid    |
| Color:          | Colorless |



| Odor: Mild   |              |
|--|--------------|
| Odor threshold: No data available.   |              |
| pH: No data available.   |              |
| Melting point/freezing point: No data available.   |              |
| Initial boiling point and boiling range: No data available.                              |              |
| Flash Point:> 93 °C > 200 °F(Setaflash Closed Cup)                                       |              |
| Evaporation rate: Slower than Ether  |              |
| Flammability (solid, gas): No  |              |
| Upper/lower limit on flammability or explosive limits                                    |              |
| Flammability limit - upper (%): No data available.                                       |              |
| Flammability limit - lower (%): No data available.                                       |              |
| Explosive limit - upper: No data available.  |              |
| Explosive limit - lower: No data available.  |              |
| Vapor pressure: No data available.   |              |
| Vapor density:Vapors are heavier than air and may travel along the bottom of containers. | ne floor and |
| Relative density: 1.14   |              |
| Solubility(ies)  |              |
| Solubility in water: Insoluble in water  |              |
| Solubility (other): No data available.   |              |
| Partition coefficient (n-octanol/water): No data available.                              |              |
| Auto-ignition temperature: No data available.  |              |
| Decomposition temperature: No data available.  |              |
| Viscosity: No data available.  |              |

# 10. Stability and reactivity

| Reactivity:                            | No data available.  |
|--|---|
| Chemical Stability:                    | Material is stable under normal conditions.   |
| Possibility of hazardous<br>reactions: | No data available.  |
| Conditions to avoid:                   | Avoid heat or contamination.  |
| Incompatible Materials:                | No data available.  |
| Hazardous Decomposition<br>Products:   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

# 11. Toxicological information

| Information on likely routes of | exposure  |
|---------------------------------|---|
| Inhalation:                     | In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.     |
| Skin Contact:                   | May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. |



| Eye contact:  | Causes serious eye irritation.                             |
|---|--|
| Ingestion:  | May be harmful if swallowed.                               |
| Symptoms related to the physica   | II, chemical and toxicological characteristics             |
| Inhalation:   | No data available.   |
| Skin Contact:   | No data available.   |
| Eye contact:  | No data available.   |
| Ingestion:  | No data available.   |
| Information on toxicological effe   | cts  |
| Acute toxicity (list all possible   | routes of exposure)  |
| Oral<br>Product:  | Not classified for acute toxicity based on available data. |
| <b>Specified substance(s):</b><br>Bisphenol A Polyglycidyl<br>Ether Resin | LD 50 (Rat): > 2,000 mg/kg                                 |
| o-Cresyl glycidyl ether   | LD 50 (Rat): > 5,000 mg/kg                                 |
| Dermal<br>Product:  | Not classified for acute toxicity based on available data. |
| <b>Specified substance(s):</b><br>Bisphenol A Polyglycidyl<br>Ether Resin | LD 50 (Rat): > 2,000 mg/kg                                 |
| o-Cresyl glycidyl ether   | LD 50 (Rat): > 2,000 mg/kg                                 |
| Inhalation<br>Product:  | Not classified for acute toxicity based on available data. |
| Specified substance(s):<br>Bisphenol A Polyglycidyl<br>Ether Resin        | LC 50: > 20 mg/l<br>LC 50: > 5 mg/l                        |
| o-Cresyl glycidyl ether   | LC 50 (Rat): 6,090 mg/m3                                   |
| Repeated dose toxicity<br>Product:  | No data available.   |



| Skin Corrosion/Irritation<br>Product:   | No data available.  |  |  |
|---|---|--|--|
| <b>Specified substance(s):</b><br>Bisphenol A<br>Polyglycidyl Ether<br>Resin  | in vivo (Rabbit): Moderately irritating , 24 h  |  |  |
| o-Cresyl glycidyl ether   | in vivo (Rabbit): Not irritant , 7 d  |  |  |
| Serious Eye Damage/Eye Irritati<br>Product:   | on<br>No data available.  |  |  |
| Respiratory or Skin Sensitizatio<br>Product:  | <b>n</b><br>No data available.  |  |  |
| Carcinogenicity<br>Product:   | No data available.  |  |  |
| IARC Monographs on the Evaluation No carcinogenic component   | ation of Carcinogenic Risks to Humans:<br>is identified   |  |  |
|   | US. National Toxicology Program (NTP) Report on Carcinogens:<br>No carcinogenic components identified |  |  |
| US. OSHA Specifically Regulate<br>No carcinogenic component   | d Substances (29 CFR 1910.1001-1050), as amended:<br>is identified                                    |  |  |
| Germ Cell Mutagenicity  |   |  |  |
| In vitro<br>Product:  | No data available.  |  |  |
|   |   |  |  |
| In vivo<br>Product:   | No data available.  |  |  |
| -   | No data available.<br>No data available.  |  |  |
| Product:<br>Reproductive toxicity   | No data available.  |  |  |
| Product:<br>Reproductive toxicity<br>Product:<br>Specific Target Organ Toxicity -   | No data available.<br>Single Exposure<br>No data available.   |  |  |
| Product:<br>Reproductive toxicity<br>Product:<br>Specific Target Organ Toxicity -<br>Product:<br>Specific Target Organ Toxicity - | No data available.<br>Single Exposure<br>No data available.<br>Repeated Exposure                      |  |  |



Other effects:

No data available.

# 12. Ecological information

# Ecotoxicity:

# Acute hazards to the aquatic environment:

| Fish<br>Product:   | No data available.   |
|--|--|
| Specified substance(s):<br>Bisphenol A Polyglycidyl<br>Ether Resin | LC 50 (Oncorhynchus mykiss, 96 h): 1.5 mg/l Experimental result, Key study               |
| o-Cresyl glycidyl ether  | LC 50 (Oncorhynchus mykiss, 96 h): 2.8 - 5.1 mg/l Experimental result, Key study         |
| Aquatic Invertebrates<br>Product:                                  | No data available.   |
| Specified substance(s):<br>Bisphenol A Polyglycidyl<br>Ether Resin | EC 50 (Daphnia magna, 48 h): 1.1 mg/l experimental result Experimental result, Key study |
| o-Cresyl glycidyl ether  | EC 50 (Daphnia magna, 48 h): 3.3 mg/l experimental result Experimental result, Key study |
| Chronic hazards to the aquation                                    | c environment:   |
| Fish<br>Product:   | No data available.   |
| Aquatic Invertebrates<br>Product:                                  | No data available.   |
| Specified substance(s):<br>Bisphenol A Polyglycidyl<br>Ether Resin | NOAEL (Daphnia magna): 0.3 mg/l experimental result Experimental result,<br>Key study    |
| Toxicity to Aquatic Plants<br>Product:                             | No data available.   |
| Persistence and Degradability                                      |  |
| Biodegradation<br>Product:   | No data available.   |
| Specified substance(s):  | 40/00  |
| 00000018772  | 10/33  |



| Bisphenol A Polyglycidyl<br>Ether Resin                                   | 82 % Detected in water. Experimental result, Key study  |
|---|---|
| o-Cresyl glycidyl ether   | 11 - 17 % (28 d) Detected in water. Experimental result, Key study  |
| BOD/COD Ratio<br>Product:   | No data available.  |
| Bioaccumulative potential<br>Bioconcentration Factor (BC<br>Product:      | CF)<br>No data available.   |
| Specified substance(s):<br>Bisphenol A Polyglycidyl<br>Ether Resin        | Bioconcentration Factor (BCF): 31 Aquatic sediment QSAR, Key study  |
| Partition Coefficient n-octanol / v<br>Product:                           | <b>vater (log Kow)</b><br>No data available.  |
| <b>Specified substance(s):</b><br>Bisphenol A Polyglycidyl<br>Ether Resin | Log Kow: 2.64 - 3.78 25 °C Yes Experimental result, Key study   |
| Mobility in soil:   | No data available.  |
| Other adverse effects:  | Toxic to aquatic life with long lasting effects.  |
| 13. Disposal considerations   |   |
| Disposal methods:   | Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |
| Contaminated Packaging:   | No data available.  |

# 14. Transport information

#### TDG:

Not Regulated

# CFR / DOT:

Not Regulated

#### IMDG:

Not Regulated



#### **Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

#### 15. Regulatory information

#### **US Federal Regulations**

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

None present or none present in regulated quantities.

# US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

| Chemical Identity | Reportable quantity |
|-------------------|---------------------|
| Methanol          | 5000 lbs.           |

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

#### **Hazard categories**

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Skin Corrosion or Irritation Serious eye damage or eye irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

#### <u>Chemical Identity</u> <u>% by weight</u>

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

#### **US State Regulations**

US. California Proposition 65



WARNING

Reproductive Harm - www.P65Warnings.ca.gov



#### International regulations

# **Montreal protocol**

Not applicable

# Stockholm convention

Not applicable

### **Rotterdam convention**

Not applicable

# Kyoto protocol

Not applicable

VOC: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 19 g/l

| Regulatory VOC (less water and | : | 0 g/l  |
|--------------------------------|---|--------|
| exempt solvent)                |   |        |
| VOC Method 310                 | : | 0.00 % |



| Inventory Status:<br>Australia AICS:     | All components in this product are listed on or exempt from the Inventory.             |
|--|--|
| Canada DSL Inventory List:               | All components in this product are listed on or exempt from the Inventory.             |
| EINECS, ELINCS or NLP:                   | All components in this product are listed on or exempt from the Inventory.             |
| Japan (ENCS) List:                       | All components in this product are listed on or exempt from the Inventory.             |
| China Inv. Existing Chemical Substances: | All components in this product are listed on or exempt from the Inventory.             |
| Korea Existing Chemicals Inv. (KECI):    | All components in this product are listed on or exempt from the Inventory.             |
| Canada NDSL Inventory:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Philippines PICCS:                       | All components in this product are listed on or exempt from the Inventory.             |
| US TSCA Inventory:                       | All components in this product are listed on or exempt from the Inventory.             |
| New Zealand Inventory of Chemicals:      | All components in this product are listed on or exempt from the Inventory.             |
| Japan ISHL Listing:                      | All components in this product are listed on or exempt from the Inventory.             |
| Japan Pharmacopoeia Listing:             | One or more components in this product are not listed on or exempt from the Inventory. |



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

| Revision Date:       | 11/17/2022   |
|----------------------|--|
| Version #:           | 2.2  |
| Further Information: | No data available.   |
| Disclaimer:          | For Industrial Use Only. Keep out of Reach of Children. The hazard<br>information herein is offered solely for the consideration of the user, subject<br>to their own investigation of compliance with applicable regulations, including<br>the safe use of the product under every foreseeable condition. |



Version: 2.2 Revision Date: 11/17/2022

# SAFETY DATA SHEET

#### 1. Identification

#### Product identifier: DURAL 452 LV 2:1 PART B Product Code: 002DL 03

#### Recommended use and restriction on use

Recommended use: Curative Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110 US

#### Contact person: Telephone: Emergency telephone number:

EH&S Department 216-531-9222 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### **Hazard Classification**

#### Health Hazards

| Acute toxicity (Oral)<br>Acute toxicity (Inhalation - vapor)<br>Acute toxicity (Inhalation - dust and<br>mist) | Category 4<br>Category 4<br>Category 4 |
|--|--|
| Skin Corrosion/Irritation  | Category 1A                            |
| Serious Eye Damage/Eye Irritation  | Category 1                             |
| Skin sensitizer  | Category 1                             |
| Germ Cell Mutagenicity   | Category 1B                            |
| Carcinogenicity  | Category 1B                            |
| Toxic to reproduction  | Category 2                             |

#### **Unknown toxicity - Health**

| Acute toxicity, oral                     | 16.8 %  |
|--|---------|
| Acute toxicity, dermal                   | 25.53 % |
| Acute toxicity, inhalation, vapor        | 96.02 % |
| Acute toxicity, inhalation, dust or mist | 93.89 % |

#### **Environmental Hazards**

Acute hazards to the aquatic Category 2 environment



| Chronic hazards to the aquat environment | ic Category 2   |
|--|---|
| Unknown toxicity - Environment           |   |
| Acute hazards to the aquatic environment | 74.79 %   |
| Chronic hazards to the aquat environment | ic 88.74 %  |
| bel Elements                             |   |
| Hazard Symbol:                           |   |
|  |   |
| Signal Word: Da                          | inger   |
| Ca<br>Ma<br>Ma<br>Ma<br>Su               | armful if swallowed or if inhaled.<br>Iuses severe skin burns and eye damage.<br>Ay cause an allergic skin reaction.<br>Ay cause genetic defects.<br>Ay cause cancer.<br>Spected of damaging fertility or the unborn child.<br>xic to aquatic life with long lasting effects.   |
| Precautionary<br>Statements              |   |
| ha<br>bre<br>clo<br>noi<br>Do<br>Us      | e only outdoors or in a well-ventilated area. Wash thoroughly after<br>ndling. Do not eat, drink or smoke when using this product. Do not<br>eathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective<br>thing/eye protection/face protection. Contaminated work clothing should<br>t be allowed out of the workplace. Obtain special instructions before use.<br>not handle until all safety precautions have been read and understood.<br>e personal protective equipment as required. Avoid release to the<br>vironment.   |
| bre<br>Re<br>SK<br>wit<br>ad<br>ph<br>Im | INHALED: Remove person to fresh air and keep comfortable for<br>eathing. IF IN EYES: Rinse cautiously with water for several minutes.<br>emove contact lenses, if present and easy to do. Continue rinsing. IF ON<br>(IN (or hair): Take off immediately all contaminated clothing. Rinse skin<br>th water [or shower]. If skin irritation or rash occurs: Get medical<br>vice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/<br>ysician if you feel unwell. Rinse mouth. Do NOT induce vomiting.<br>mediately call a POISON CENTER/doctor. Specific treatment (see on this<br>bel). Wash contaminated clothing before reuse. Collect spillage. |
| Storage: Sto                             | ore locked up.  |
| Disposal: Dis                            | spose of contents/container to an appropriate treatment and disposal  |

#### Label E



facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

# Hazard(s) not otherwise None. classified (HNOC):

#### 3. Composition/information on ingredients

#### Mixtures

| Chemical Identity                    | CAS number | Content in percent (%)* |
|--------------------------------------|------------|-------------------------|
| 1,3-Cyclohexanedimethanamine         | 2579-20-6  | 10 - <25%               |
| Poly(oxypropylene) diamine           | 9046-10-0  | 10 - <20%               |
| Bisphenol A                          | 80-05-7    | 5 - <10%                |
| 2-Methyl-1,5-pentanediamine          | 15520-10-2 | 5 - <10%                |
| 4-Nonylphenol                        | 84852-15-3 | 3 - <5%                 |
| 4-tert-Butylphenol                   | 98-54-4    | 3 - <5%                 |
| Benzyl alcohol                       | 100-51-6   | 1 - <5%                 |
| Bisphenol A Polyglycidyl Ether Resin | 25068-38-6 | 2.5 - <5%               |
| m-Xylenediamine                      | 1477-55-0  | 1 - <3%                 |
| Stoddard solvent (Mineral Spirits)   | 8052-41-3  | 0.1 - <1%               |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

| Description of necessary first-aid measures       |   |  |  |
|---|---|--|--|
| Inhalation:                                       | Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.   |  |  |
| Skin Contact:                                     | Call a physician or poison control center immediately. Destroy or<br>thoroughly clean contaminated shoes. Immediately remove<br>contaminated clothing and shoes and wash skin with soap and plenty<br>of water. If skin irritation or an allergic skin reaction develops, get<br>medical attention. |  |  |
| Eye contact:                                      | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.  |  |  |
| Ingestion:  | Rinse mouth. Call a physician or poison control center immediately.<br>Never give liquid to an unconscious person. Do not induce vomiting<br>without advice from poison control center.   |  |  |
| Personal Protection for First-<br>aid Responders: | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.   |  |  |

Most important symptoms/effects, acute and delayed



| Symptoms:  | Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing.               |
|--|---|
| Hazards:   | No data available.  |
| Indication of immediate medical  | attention and special treatment needed  |
| Treatment:   | Symptoms may be delayed.  |
| 5. Fire-fighting measures  |   |
| General Fire Hazards:  | No unusual fire or explosion hazards noted.   |
| Suitable (and unsuitable) exting   | uishing media   |
| Suitable extinguishing media:  | Use fire-extinguishing media appropriate for surrounding materials.   |
| Unsuitable extinguishing media:  | Do not use water jet as an extinguisher, as this will spread the fire.  |
| Specific hazards arising from the chemical:                                | During fire, gases hazardous to health may be formed.   |
| Special protective equipment ar  | nd precautions for fire-fighters  |
| Special fire-fighting procedures:  | No data available.  |
| Special protective equipment for fire-fighters:                            | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.   |
| 6. Accidental release measure  | es  |
| Personal precautions,<br>protective equipment and<br>emergency procedures: | See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. |
| Accidental release measures:   | In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.   |
| Methods and material for<br>containment and cleaning<br>up:                | Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.               |
| Environmental Precautions:   | Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.  |
| 7. Handling and storage  |   |
| Handling   |   |



| Technical measures (e.g. Local and general ventilation): | Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.   |
|--|--|
| Safe handling advice:                                    | Provide adequate ventilation. Wear appropriate personal protective<br>equipment. Observe good industrial hygiene practices.Do not taste or<br>swallow. Wash hands thoroughly after handling. Do not handle until all<br>safety precautions have been read and understood. Obtain special<br>instructions before use. Use personal protective equipment as required. Do<br>not get in eyes. Do not get in eyes, on skin, on clothing. Avoid contact with<br>eyes, skin, and clothing.   |
| Contact avoidance measures:                              | No data available.   |
| Hygiene measures:  | Observe good industrial hygiene practices. Do not eat, drink or smoke<br>when using the product. Wash hands after handling. Wash hands before<br>breaks and immediately after handling the product. Do not get in eyes. Do<br>not handle until all safety precautions have been read and understood.<br>Obtain special instructions before use. Wash contaminated clothing before<br>reuse. Do not get this material in contact with skin. Contaminated work<br>clothing should not be allowed out of the workplace. Avoid contact with<br>skin. |
| Storage  |  |
| Safe storage conditions:                                 | Store locked up.   |
| Safe packaging materials:                                | No data available.   |

# 8. Exposure controls/personal protection

#### **Control Parameters**

#### **Occupational Exposure Limits**

| Chemical Identity                  | Туре    | Exposure Limit Values | Source  |
|------------------------------------|---------|-----------------------|---|
| m-Xylenediamine                    | Ceiling | 0.018 ppm             | US. ACGIH Threshold Limit Values, as<br>amended (02 2020)                                     |
| Stoddard solvent (Mineral Spirits) | TWA     | 100 ppm               | US. ACGIH Threshold Limit Values, as amended (2008)   |
|                                    | PEL     | 500 ppm 2,900 mg/m3   | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000), as<br>amended (02 2006) |

None of the components have assigned exposure limits.



| Chemical name                      | Туре    | Exposure Lim | it Values  | Source  |
|------------------------------------|---------|--------------|------------|---|
| m-Xylenediamine                    | CEILING |              | 0.1 mg/m3  | Canada. British Columbia OELs. (Occupational<br>Exposure Limits for Chemical Biological<br>Substances, Occupational Health and Safety<br>Regulation 296/97, as amended) (07 2007) |
| m-Xylenediamine                    | CEV     |              | 0.1 mg/m3  | Canada. Ontario OELs. (Control of Exposure to<br>Biological or Chemical Agents), as amended<br>(01 2020)  |
| m-Xylenediamine                    | CEILING |              | 0.1 mg/m3  | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation respecting occupational health and<br>safety), as amended (03 2020)   |
| Stoddard solvent (Mineral Spirits) | STEL    |              | 580 mg/m3  | Canada. British Columbia OELs. (Occupational<br>Exposure Limits for Chemical Biological<br>Substances, Occupational Health and Safety<br>Regulation 296/97, as amended) (07 2007) |
|                                    | TWA     |              | 290 mg/m3  | Canada. British Columbia OELs. (Occupational<br>Exposure Limits for Chemical Biological<br>Substances, Occupational Health and Safety<br>Regulation 296/97, as amended) (07 2007) |
| Stoddard solvent (Mineral Spirits) | TWA     | 100 ppm      |            | Canada. Ontario OELs. (Control of Exposure to<br>Biological or Chemical Agents), as amended<br>(11 2010)  |
| Stoddard solvent (Mineral Spirits) | TWA     | 100 ppm      | 525 mg/m3  | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation respecting occupational health and<br>safety), as amended (09 2017)   |
| 1-Methoxy-2-propanol<br>acetate    | TWA     | 50 ppm       |            | Canada. British Columbia OELs. (Occupational<br>Exposure Limits for Chemical Biological<br>Substances, Occupational Health and Safety<br>Regulation 296/97, as amended) (07 2007) |
|                                    | STEL    | 75 ppm       |            | Canada. British Columbia OELs. (Occupational<br>Exposure Limits for Chemical Biological<br>Substances, Occupational Health and Safety<br>Regulation 296/97, as amended) (07 2007) |
| 1-Methoxy-2-propanol acetate       | TWA     | 50 ppm       | 270 mg/m3  | Canada. Ontario OELs. (Control of Exposure to<br>Biological or Chemical Agents), as amended<br>(12 2007)  |
| 1,2,4-Trimethylbenzene             | TWA     | 25 ppm       | 123 mg/m3  | Canada. Alberta OELs (Occupational Health &<br>Safety Code, Schedule 1, Table 2), as<br>amended (07 2009)   |
| 1,2,4-Trimethylbenzene             | TWA     | 25 ppm       |            | Canada. British Columbia OELs. (Occupational<br>Exposure Limits for Chemical Biological<br>Substances, Occupational Health and Safety<br>Regulation 296/97, as amended) (07 2007) |
| 1,2,4-Trimethylbenzene             | TWA     | 25 ppm       |            | Canada. Ontario OELs. (Control of Exposure to<br>Biological or Chemical Agents), as amended<br>(11 2010)  |
| 1,2,4-Trimethylbenzene             | TWA     | 25 ppm       |            | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation respecting occupational health and<br>safety), as amended (03 2020)   |
| Phenyl glycidyl ether              | TWA     | 0.1 ppm      |            | Canada. British Columbia OELs. (Occupational<br>Exposure Limits for Chemical Biological<br>Substances, Occupational Health and Safety<br>Regulation 296/97, as amended) (07 2007) |
| Phenyl glycidyl ether              | TWA     | 0.1 ppm      |            | Canada. Ontario OELs. (Control of Exposure to<br>Biological or Chemical Agents), as amended<br>(11 2010)  |
| Phenyl glycidyl ether              | TWA     | 0.1 ppm      | 0.61 mg/m3 | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation respecting occupational health and<br>safety), as amended (09 2017)   |

#### Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.



# Individual protection measures, such as personal protective equipment

| Eye/face protection:                | Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.  |
|-------------------------------------|--|
| Skin Protection<br>Hand Protection: | Additional Information: Use suitable protective gloves if risk of skin contact.  |
| Skin and Body Protection:           | Wear suitable protective clothing. Wear chemical-resistant gloves,<br>footwear, and protective clothing appropriate for the risk of exposure.<br>Contact health and safety professional or manufacturer for specific<br>information.   |
| Respiratory Protection:             | In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.  |
| Hygiene measures:                   | Observe good industrial hygiene practices. Do not eat, drink or smoke<br>when using the product. Wash hands after handling. Wash hands before<br>breaks and immediately after handling the product. Do not get in eyes. Do<br>not handle until all safety precautions have been read and understood.<br>Obtain special instructions before use. Wash contaminated clothing before<br>reuse. Do not get this material in contact with skin. Contaminated work<br>clothing should not be allowed out of the workplace. Avoid contact with<br>skin. |

# 9. Physical and chemical properties

| Appearance                                     |   |
|--|---|
| Physical state:                                | liquid  |
| Form:  | liquid  |
| Color:   | Amber   |
| Odor:  | Mild pungent  |
| Odor threshold:                                | No data available.  |
| pH:  | No data available.  |
| Melting point/freezing point:                  | No data available.  |
| Initial boiling point and boiling range:       | No data available.  |
| Flash Point:                                   | > 93 °C > 200 °F(Setaflash Closed Cup)  |
| Evaporation rate:                              | Slower than Ether   |
| Flammability (solid, gas):                     | No  |
| Upper/lower limit on flammability or explosive | ve limits   |
| Flammability limit - upper (%):                | No data available.  |
| Flammability limit - lower (%):                | No data available.  |
| Explosive limit - upper:                       | No data available.  |
| Explosive limit - lower:                       | No data available.  |
| Vapor pressure:                                | No data available.  |
| Vapor density:                                 | Vapors are heavier than air and may travel along the floor and in the bottom of containers. |



| Relative density:                        | 1.02                  |
|--|-----------------------|
| Solubility(ies)                          |                       |
| Solubility in water:                     | Practically Insoluble |
| Solubility (other):                      | No data available.    |
| Partition coefficient (n-octanol/water): | No data available.    |
| Auto-ignition temperature:               | No data available.    |
| Decomposition temperature:               | No data available.    |
| Viscosity:                               | No data available.    |

# 10. Stability and reactivity

| Reactivity:                          | No data available.  |
|--------------------------------------|---|
| Chemical Stability:                  | Material is stable under normal conditions.   |
| Possibility of hazardous reactions:  | No data available.  |
| Conditions to avoid:                 | Avoid heat or contamination.  |
| Incompatible Materials:              | Avoid contact with acids.   |
| Hazardous Decomposition<br>Products: | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

# 11. Toxicological information

#### Information on likely routes of exposure

| Inhalation:   | In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.       |
|---------------|---|
| Skin Contact: | May be harmful in contact with skin. Causes severe skin burns. May cause an allergic skin reaction. |
| Eye contact:  | Causes serious eye damage.  |
| Ingestion:    | Harmful if swallowed.   |

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

- Inhalation: No data available.
- Skin Contact: No data available.
- Eye contact: No data available.
- Ingestion: No data available.



#### Information on toxicological effects

| Acute toxicity (list all possible routes of exposure)                  |  |  |
|--|--|--|
| Oral<br>Product:   | ATEmix: 1,912.59 mg/kg                         |  |
| Dermal<br>Product:   | ATEmix: 4,449.59 mg/kg                         |  |
| Inhalation<br>Product:   | ATEmix: 11 mg/l<br>ATEmix : 3.33 mg/l          |  |
| Repeated dose toxicity<br>Product:                                     | No data available.                             |  |
| Skin Corrosion/Irritation<br>Product:                                  | No data available.                             |  |
| <b>Specified substance(s):</b><br>1,3-<br>Cyclohexanedimethana<br>mine | in vivo (Rabbit): Corrosive , 1 h              |  |
| Poly(oxypropylene)<br>diamine  | in vivo (Rabbit): Corrosive , 48 - 72 h        |  |
| 4-Nonylphenol  | in vivo (Rabbit): Irritating , 1 - 8 d         |  |
| 4-tert-Butylphenol   | in vivo (Rabbit): Not Classified , 7 - 10 d    |  |
| Benzyl alcohol   | in vivo (Rabbit): Slightly irritating          |  |
| Bisphenol A<br>Polyglycidyl Ether<br>Resin                             | in vivo (Rabbit): Moderately irritating , 24 h |  |
| m-Xylenediamine  | in vivo (Mouse): Corrosive , 4 h               |  |

#### Serious Eye Damage/Eye Irritation Product: No data available.

Product: Specified substance(s):

| Poly(oxypropylene) | Rabbit, 24 hrs: Corrosive |
|--------------------|---------------------------|
| diamine            |                           |



| 4-Nonylphenol   | Rabbit, 24 - 72 hrs: Corrosive   |
|---|--|
| 4-tert-Butylphenol  | Rabbit, 24 hrs: Category 1   |
| Respiratory or Skin Sensitizatior<br>Product:                 | No data available.   |
| Carcinogenicity<br>Product:                                   | May cause cancer.  |
| IARC Monographs on the Evalua<br>No carcinogenic components   | tion of Carcinogenic Risks to Humans:<br>identified                      |
| US. National Toxicology Program<br>No carcinogenic components |  |
| US. OSHA Specifically Regulated<br>No carcinogenic components | <b>J Substances (29 CFR 1910.1001-1050), as amended:</b><br>s identified |
| Germ Cell Mutagenicity  |  |
| In vitro<br>Product:  | No data available.   |
| In vivo<br>Product:   | No data available.   |
| Reproductive toxicity<br>Product:                             | Suspected of damaging fertility or the unborn child.                     |
| Specific Target Organ Toxicity -<br>Product:                  | Single Exposure<br>No data available.                                    |
| Specific Target Organ Toxicity -<br>Product:                  | Repeated Exposure<br>No data available.                                  |
| Aspiration Hazard<br>Product:                                 | No data available.   |
| Other effects:  | No data available.   |

# 12. Ecological information

# Ecotoxicity:

Acute hazards to the aquatic environment:



| Fish<br>Product:   | No data available.  |
|--|---|
| <b>Specified substance(s):</b><br>1,3-<br>Cyclohexanedimethanam<br>ine   | LC 50 (Leuciscus idus, 96 h): 130 mg/l Experimental result, Key study   |
| Poly(oxypropylene)<br>diamine  | LC 50 (Cyprinodon variegatus, 96 h): 772.14 mg/l Experimental result, Key study   |
| Bisphenol A  | LC 50 (Pimephales promelas, 96 h): 4.6 mg/l Experimental result, Key study  |
| 2-Methyl-1,5-<br>pentanediamine  | LC 50 (Leuciscus idus, 48 h): 130 mg/l Experimental result, Supporting study  |
| 4-Nonylphenol  | EC 50 (Pimephales promelas, 96 h): 96 $\mu$ g/l Experimental result, Key study  |
| 4-tert-Butylphenol   | LC 50 (Fathead minnow (Pimephales promelas), 96 h): 4.71 - 5.62 mg/l<br>Mortality   |
| Benzyl alcohol   | LC 50 (Pimephales promelas, 96 h): 460 mg/l Experimental result, Key study  |
| Bisphenol A Polyglycidyl<br>Ether Resin  | LC 50 (Oncorhynchus mykiss, 96 h): 1.5 mg/l Experimental result, Key study  |
| m-Xylenediamine  | LC 50 (Oryzias latipes, 96 h): 87.6 mg/l Experimental result, Key study   |
|  |   |
| Aquatic Invertebrates<br>Product:  | No data available.  |
| -  | No data available.<br>EC 50 (Daphnia magna, 48 h): 33.1 mg/l experimental result Experimental result, Key study   |
| Product:<br>Specified substance(s):<br>1,3-<br>Cyclohexanedimethanam   | EC 50 (Daphnia magna, 48 h): 33.1 mg/l experimental result Experimental   |
| Product:<br>Specified substance(s):<br>1,3-<br>Cyclohexanedimethanam<br>ine<br>Poly(oxypropylene)  | EC 50 (Daphnia magna, 48 h): 33.1 mg/l experimental result Experimental result, Key study<br>EC 50 (Daphnia magna, 48 h): 80 mg/l experimental result Experimental  |
| Product:<br>Specified substance(s):<br>1,3-<br>Cyclohexanedimethanam<br>ine<br>Poly(oxypropylene)<br>diamine   | EC 50 (Daphnia magna, 48 h): 33.1 mg/l experimental result Experimental result, Key study<br>EC 50 (Daphnia magna, 48 h): 80 mg/l experimental result Experimental result, Key study<br>EC 50 (Daphnia magna, 48 h): 10.2 mg/l experimental result Experimental   |
| Product:<br>Specified substance(s):<br>1,3-<br>Cyclohexanedimethanam<br>ine<br>Poly(oxypropylene)<br>diamine<br>Bisphenol A<br>2-Methyl-1,5-                   | <ul> <li>EC 50 (Daphnia magna, 48 h): 33.1 mg/l experimental result Experimental result, Key study</li> <li>EC 50 (Daphnia magna, 48 h): 80 mg/l experimental result Experimental result, Key study</li> <li>EC 50 (Daphnia magna, 48 h): 10.2 mg/l experimental result Experimental result, Key study</li> <li>EC 50 (Daphnia magna, 48 h): 19.8 mg/l read-across based on grouping of substances (category approach) Read-across based on grouping of</li> </ul>  |
| Product:<br>Specified substance(s):<br>1,3-<br>Cyclohexanedimethanam<br>ine<br>Poly(oxypropylene)<br>diamine<br>Bisphenol A<br>2-Methyl-1,5-<br>pentanediamine | <ul> <li>EC 50 (Daphnia magna, 48 h): 33.1 mg/l experimental result Experimental result, Key study</li> <li>EC 50 (Daphnia magna, 48 h): 80 mg/l experimental result Experimental result, Key study</li> <li>EC 50 (Daphnia magna, 48 h): 10.2 mg/l experimental result Experimental result, Key study</li> <li>EC 50 (Daphnia magna, 48 h): 19.8 mg/l read-across based on grouping of substances (category approach) Read-across based on grouping of substances (category approach), Key study</li> <li>EC 50 (Daphnia magna, 48 h): 84.4 μg/l experimental result Experimental</li> </ul> |



| Bisphenol A Polyglycidyl<br>Ether Resin | EC 50 (Daphnia magna, 48 h): 1.1 mg/l experimental result Experimental result, Key study  |
|---|---|
| m-Xylenediamine                         | EC 50 (Daphnia magna, 48 h): 15.2 mg/l experimental result Experimental result, Key study   |
| Stoddard solvent (Mineral Spirits)      | LC 50 (Daphnia magna, 48 h): 0.42 - 2.3 mg/l  |
| Chronic hazards to the aquati           | c environment:  |
| Fish<br>Product:                        | No data available.  |
| Specified substance(s):<br>Bisphenol A  | NOAEL (Pimephales promelas): 640 μg/l experimental result Experimental result, Key study  |
| 4-Nonylphenol                           | NOAEL (Oncorhynchus mykiss): 0.006 mg/l experimental result<br>Experimental result, Key study   |
| 4-tert-Butylphenol                      | NOAEL (Pimephales promelas): 10 $\mu\text{g/I}$ experimental result Experimental result, Key study  |
| Aquatic Invertebrates<br>Product:       | No data available.  |
| Specified substance(s):<br>Bisphenol A  | NOAEL (Daphnia magna): 1 mg/l experimental result Experimental result,<br>Supporting study  |
| 2-Methyl-1,5-<br>pentanediamine         | NOAEL (Daphnia magna): 4.16 mg/l read-across based on grouping of substances (category approach) Read-across based on grouping of substances (category approach), Key study |
| 4-Nonylphenol                           | NOAEL (Daphnia magna): 0.024 mg/l experimental result Experimental result, Key study  |
| 4-tert-Butylphenol                      | NOAEL (Daphnia magna): 0.73 mg/l experimental result Experimental result,<br>Key study  |
| Benzyl alcohol                          | NOAEL (Daphnia magna): 51 mg/l experimental result Experimental result,<br>Key study  |
| Bisphenol A Polyglycidyl<br>Ether Resin | NOAEL (Daphnia magna): 0.3 mg/l experimental result Experimental result,<br>Key study   |
| m-Xylenediamine                         | NOAEL (Daphnia magna): 4.7 mg/l experimental result Experimental result,<br>Key study   |
| Toxicity to Aquatic Plants<br>Product:  | No data available.  |

# Persistence and Degradability



| Biodegradation<br>Product:   | No data available.  |
|--|---|
| <b>Specified substance(s):</b><br>1,3-<br>Cyclohexanedimethanami<br>ne   | 29 % (28 d) Detected in water. Experimental result, Key study   |
| Bisphenol A  | 89 % (28 d) Detected in water. Experimental result, Key study   |
| 2-Methyl-1,5-<br>pentanediamine  | 100 % Detected in water. Experimental result, Key study   |
| 4-Nonylphenol  | 48.2 % (35 d) Detected in water. Experimental result, Key study   |
| 4-tert-Butylphenol   | 60 % (28 d) Detected in water. Experimental result, Key study   |
| Benzyl alcohol   | 97 % (21 d) Detected in water. Experimental result, Key study   |
| Bisphenol A Polyglycidyl<br>Ether Resin  | 82 % Detected in water. Experimental result, Key study  |
| m-Xylenediamine  | 49 % (28 d) Detected in water. Experimental result, Key study   |
| BOD/COD Ratio<br>Product:  | No data available.  |
|  |   |
| Bioaccumulative potential<br>Bioconcentration Factor (BC<br>Product:   | <b>CF)</b><br>No data available.  |
| <b>Bioconcentration Factor (BC</b>   |   |
| Bioconcentration Factor (BC<br>Product:<br>Specified substance(s):   | No data available.<br>Cyprinus carpio, Bioconcentration Factor (BCF): 20 - 67 Aquatic sediment  |
| Bioconcentration Factor (BC<br>Product:<br>Specified substance(s):<br>Bisphenol A  | No data available.<br>Cyprinus carpio, Bioconcentration Factor (BCF): 20 - 67 Aquatic sediment<br>Experimental result, Key study<br>Pimephales promelas, Bioconcentration Factor (BCF): 740 Aquatic sediment  |
| Bioconcentration Factor (BC<br>Product:<br>Specified substance(s):<br>Bisphenol A<br>4-Nonylphenol   | No data available.<br>Cyprinus carpio, Bioconcentration Factor (BCF): 20 - 67 Aquatic sediment<br>Experimental result, Key study<br>Pimephales promelas, Bioconcentration Factor (BCF): 740 Aquatic sediment<br>Experimental result, Key study<br>Cyprinus carpio, Bioconcentration Factor (BCF): 44 - 48 Aquatic sediment  |
| Bioconcentration Factor (BC<br>Product:<br>Specified substance(s):<br>Bisphenol A<br>4-Nonylphenol<br>4-tert-Butylphenol<br>Bisphenol A Polyglycidyl   | No data available.<br>Cyprinus carpio, Bioconcentration Factor (BCF): 20 - 67 Aquatic sediment<br>Experimental result, Key study<br>Pimephales promelas, Bioconcentration Factor (BCF): 740 Aquatic sediment<br>Experimental result, Key study<br>Cyprinus carpio, Bioconcentration Factor (BCF): 44 - 48 Aquatic sediment<br>Experimental result, Key study<br>Bioconcentration Factor (BCF): 31 Aquatic sediment QSAR, Key study                    |
| Bioconcentration Factor (BC<br>Product:<br>Specified substance(s):<br>Bisphenol A<br>4-Nonylphenol<br>4-tert-Butylphenol<br>Bisphenol A Polyglycidyl<br>Ether Resin<br>Partition Coefficient n-octanol / v | No data available.<br>Cyprinus carpio, Bioconcentration Factor (BCF): 20 - 67 Aquatic sediment<br>Experimental result, Key study<br>Pimephales promelas, Bioconcentration Factor (BCF): 740 Aquatic sediment<br>Experimental result, Key study<br>Cyprinus carpio, Bioconcentration Factor (BCF): 44 - 48 Aquatic sediment<br>Experimental result, Key study<br>Bioconcentration Factor (BCF): 31 Aquatic sediment QSAR, Key study<br>water (log Kow) |

Benzyl alcohol Log Kow: 1.10



| Bisphenol A Polyglycidyl<br>Ether Resin | Log Kow: 2.64 - 3.78 25 °C Yes Experimental result, Key study   |  |
|---|---|--|
| Mobility in soil:                       | No data available.  |  |
| Other adverse effects:                  | Toxic to aquatic life with long lasting effects.  |  |
| 13. Disposal considerations             |   |  |
| Disposal methods:                       | Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |  |
| Contaminated Packaging:                 | No data available.  |  |

#### 14. Transport information

#### TDG:

UN1760, CORROSIVE LIQUID, N.O.S. (1,3-Cyclohexanedimethanamine, Polyoxypropylene Diamine), 8, PG II

#### CFR / DOT:

UN1760, Corrosive liquids, n.o.s. (1,3-Cyclohexanedimethanamine, Polyoxypropylene Diamine), 8, PG II

#### IMDG:

UN1760, CORROSIVE LIQUID, N.O.S. (1,3-Cyclohexanedimethanamine, Polyoxypropylene Diamine), 8, PG II

#### **Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

#### 15. Regulatory information

#### **US Federal Regulations**

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

| Chemical Identity | Reportable quantity  |
|-------------------|--|
| 4-Nonylphenol     | De minimis concentration: TSCA 5(a)(2)% One-Time Export Notification |
|                   | only.  |

# US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.



#### CERCLA Hazardous Substance List (40 CFR 302.4):

#### <u>Chemical Identity</u> <u>Reportable quantity</u>

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

#### **Hazard categories**

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Acute toxicity (any route or exposure) Skin Corrosion or Irritation Serious eye damage or eye irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity Carcinogenicity Reproductive toxicity

# US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

#### US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

| Chemical Identity | <u>% by weight</u> |
|-------------------|--------------------|
| Bisphenol A       | 1.0%               |
| 4-Nonylphenol     | 1.0%               |

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated guantities.

#### **US State Regulations**

#### US. California Proposition 65



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

#### International regulations

Montreal protocol Not applicable

Stockholm convention Not applicable

Rotterdam convention Not applicable

Kyoto protocol Not applicable



**VOC:** When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 19 g/l

Regulatory VOC (less water and<br/>exempt solvent): 56 g/lVOC Method 310: 5.44 %



| Inventory Status:<br>Australia AICS:     | One or more components in this product are not listed on or exempt from the Inventory. |
|--|--|
| Canada DSL Inventory List:               | One or more components in this product are not listed on or exempt from the Inventory. |
| EINECS, ELINCS or NLP:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan (ENCS) List:                       | One or more components in this product are not listed on or exempt from the Inventory. |
| China Inv. Existing Chemical Substances: | One or more components in this product are not listed on or exempt from the Inventory. |
| Korea Existing Chemicals Inv. (KECI):    | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada NDSL Inventory:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Philippines PICCS:                       | One or more components in this product are not listed on or exempt from the Inventory. |
| New Zealand Inventory of Chemicals:      | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan ISHL Listing:                      | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan Pharmacopoeia Listing:             | One or more components in this product are not listed on or exempt from the Inventory. |
| US TSCA Inventory:                       | All components in this product are listed on or exempt from the Inventory.             |
| Mexico INSQ:                             | One or more components in this   |



|                                      | product are not listed on or exempt from the Inventory.                                |
|--------------------------------------|--|
| Ontario Inventory:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Taiwan Chemical Substance Inventory: | One or more components in this product are not listed on or exempt from the Inventory. |

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

| Revision Date:       | 11/17/2022   |
|----------------------|--|
| Version #:           | 2.2  |
| Further Information: | No data available.   |
| Disclaimer:          | For Industrial Use Only. Keep out of Reach of Children. The hazard<br>information herein is offered solely for the consideration of the user, subject<br>to their own investigation of compliance with applicable regulations, including<br>the safe use of the product under every foreseeable condition. |