

Revision: 12/18/15

Printing date: 2/5/16

## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade Name: 799 SewerTuff HM Part A**

**Application of the substance / the preparation:** Modified Epoxy Resin

### 1.3 Details of the supplier of the Safety Data Sheet

**Manufacturer/Supplier:**

Thermal-Chem Corporation  
2120 Roberts Drive  
Broadview, IL 60155 USA  
Tel(800)635-3773

### 1.4 Emergency contact: CHEMTREC® (800)424-9300

## 2 Hazards identification

\*\*\* EMERGENCY OVERVIEW \*\*\*: No Information

### GHS Classification

Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1, Respiratory Irrit. 3, Aspiration hazard 2

### 2.2 Label elements

**Labeling according to Regulation (EC) No 1272/2008:**

The product is classified and labeled according to the CLP regulation.



GHS07

**Signal word:** Warning

### Hazard Statements:

H302 Harmful if swallowed  
H305 Harmful if swallowed and enters airways  
H312 Harmful if contact with skin  
H315 Causes Skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation

### Precautionary Statements:

P261 Avoid breathing dust/fumes/gas/mist/vapors/spray  
P264 Wash thoroughly after handling  
P270 Do not eat, drink or smoke when using this product  
P271 Use only in well ventilated area  
P272 Contaminated work clothing should not be allowed out of the work place  
P280 Wear protective gloves/clothing/eye protection/face protection

### Response statements:

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/phiscian if you feel unwell  
P302+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing  
P302+P352 IF ON SKIN: Wash with plenty of soap and water  
P321 Specific Treatment (see First Aid section)  
P330 Rinse mouth  
P333+P313 If skin irritation or rash occurs, get medical advice/attention  
P337+P313 If eye irritation persists, get medical advice/attention

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P361+P364 Take off immediately all contaminated clothing and wash it before reuse

P370+P378 In case of fire: Use for extinction CO<sub>2</sub>, powder or water spray

P391 Collect spillage

**Storage statements:**

P403+P235 Store in a well ventilated place. Keep cool

P501 Dispose of in accordance with local/regional/national/international regulations

**Hazard description:**

**Canadian WHMIS Classification:** This product is categorized as a Class D Division 2B Materials causing other toxic effects, as per the Controlled Product Regulations

**WHMIS-symbols:**



**NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 1  
Reactivity = 0

**HMIS-ratings (scale 0 - 4)**



Health = 2  
Fire = 1  
Reactivity = 0

**2.3 Other hazards:**

No known

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable

## 3 Composition/Information on Ingredients

**3.1 Mixtures**

**Description:** Mixture of substances listed below.

**Dangerous components:**

**Impurities and stabilising additives:**

CAS: 2481-15-16 EINECS: 219-553-6	2-ethyl hexyl Glycidyl Ether ☒ Xi R38, R43 ☠ Acute Tox., Dermal 4 H312 ☞ Skin Corr. 2. H315 ☞ Skin Sens. 1A. H317
CAS: 25068-38-9 EINECS: 500-033-5	Bisphenol A, Epichlorohydrin resin ☒ Xn R21, R22; ☒ Xi R36, R38, R43 ☠ Acute Tox., Oral 4, H302 ☠ Acute Tox., Dermal 4, H312 ☞ Skin Corr. 2, H315 ☞ Skin Sens. 1A, H317 ☠ Serious Eye Irrit. 2A, H319





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CAS: 69009-90-1 EINECS: 273-683-8	Diisopropylbiphenyl  T R25  Xn R43  Acute Tox., Oral 3, H301  Skin Corr. 2, H315	>20%
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## 4 First aid measures

### 4.1 Description of first aid measures

**General information:**

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid to those affected. Consult a physician/doctor if necessary. Show this safety data sheet to the doctor in attendance

**After inhalation:**

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues

**After skin contact:**

Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

**After eye contact:**

If product enters eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops

**After swallowing:**

If product is swallowed, call physician or poison control center and obtain emergency medical attention. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice.

### 4.2 Most important symptoms and effects, both acute and delayed

**Acute:** This material may cause irritation to the respiratory tract and skin and even burns. Product may cause an allergic skin reaction, and even dermatitis with long term exposure.

**Chronic:** Prolonged or repeated skin contact may cause allergic skin reaction or dermatitis. May cause pulmonary edema if aspirated into lungs.

**Target Organs: Acute:** Eye, Skin **Chronic:** Skin, Respiratory tract

**Hazards:** Pre-existing skin, or eye problems may be aggravated by exposure to this product. Harmful may cause lung damage if swallowed

### 4.3 Indications of any immediate medical attention and special treatment

Treatment of overexposures should be directed at the control of symptoms and the clinical condition of patient

## 5 Firefighting Measures

### 5.1 Extinguishing Media Suitable Extinguishing Agents:

**Suitable extinguishing agents:**

CO<sub>2</sub>, Dry Chemical, Foam, Water Fog.

### 5.2 Unusual Fire and Explosion Hazards:

Empty containers retain product residue (liquid and vapor) and can be dangerous. DO NOT expose such containers to heat, flame, sparks, static electricity or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning

**5.3 Special Advice for Firefighters:** AS in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Do not use water jet (frothing possible).

Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire

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## 6 Accidental Release Measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate area. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Use appropriate safety equipment. Use personal protective equipment

- **6.2 Environmental precautions:** All work practices must be aimed at eliminating environmental contamination. Do not allow to enter sewers/ surface or ground water. If product contaminates rivers and lakes or drains inform respective authorities

· **6.3 Steps to be taken in case material is release or spilled:**

Contain spill if safe to do so. Prevent entry into drains, sewers and other waterways. Soak up with non-combustible absorbent material and place in an appropriate container for disposable. Dispose of in accordance with Federal, State and local procedures (see section 13. Disposal Considerations)

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and Storage

· **7.1 Precautions for safe handling**

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well ventilated location. Remove contaminated clothing immediately

· **7.2 Conditions for safe storage, including any incompatibilities**

**Storage:**

Store between 10° - 50°C (45°-125°F) and avoid contact with skin and eyes. Do not store near acids or amines.

Ground all transfer equipment. Good general housekeeping procedures should be followed. Do not eat drink or smoke while using the material. Keep container closed when not in use. Protect from direct sunlight.

**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles

- **7.3 Specific end use(s):** No further relevant information available

## 8 Exposure Controls/Personal Protection

**Additional information about design of technical facilities:**

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

· **8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

None listed

**8.2 Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

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**Respiratory Protection:**

Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when aerosol or mist is formed. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member



**Protective gloves**

**Material of gloves**

Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed



**Tightly sealed goggles**

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.



**OTHER PROTECTIVE EQUIPMENT**

Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.



**HYGIENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

## 9 Physical and Chemical Properties

**9.1 Information on basic physical and chemical properties**

**General Information**

**Appearance:**

Form:	Liquid
Color:	Water white - pale straw- Color and weights will change with pigmentation
Odor:	Aromatic - Distinct sweet odor
Odor threshold:	Mild

<b>pH:</b>	No Data
<b>Change in condition</b>	
Freezing point/Freezing range:	No Data
Boiling point/Boiling range:	310° - 340°F (154° - 171°C)
<b>Flash point:</b>	>200°F (>94°C)
<b>Ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Not determined
<b>Danger of explosion:</b>	None known, handle as a combustible liquid
<b>Explosion limits:</b>	
Lower:	Not Established
Upper:	Not Established

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<b>Vapor pressure:</b>	<1 mmHg @ 20°C
<b>Relative density:</b>	Not determined
<b>Vapour density:</b>	4.5 (air=1)
<b>Evaporation rate</b>	Not established
<b>Solubility in Water:</b>	Negligible
<b>Viscosity:</b>	No data available
<b>Kinematic:</b>	No data available
<b>Solvent content:</b>	No data available
<b>Organic solvents:</b>	No data available
<b>VOC (EC)</b>	No data available

· **9.2 Other information:** No further relevant information available

## 10 Stability and Reactivity

- **10.1 Reactivity:** Will not occur
- **10.2 Chemical stability:** Product is stable  
**Thermal Decomposition/Conditions to be avoided:**  
 When heated to decomposition this product produces noxious gases such as CO, CO<sub>2</sub>, NO<sub>x</sub>, amines and others.
- **10.3 Possibility of hazardous reactions:**  
 Decomposition of this product dependent upon temperature, air supply and the presence of other materials. Can produce carbon oxides
- **10.4 Conditions to avoid:** Contact with incompatible materials
- **10.5 Incompatible materials/Materials to avoid:**  
 Oxidizing agents and amines. Avoid extreme heat. Keep away from acids
- **10.6 Hazardous Polymerization:** Will not occur

## 11 Toxicological Information

- **Product Summary:**  
 The below given information is based on the assessment of the product including impurities
- Acute toxicity:**  
**LD/LC50 values relevant for classification:**  
 LD50 Acute Dermal 2,500 mg/kg Rabbit  
 LD50 Acute Oral 2,450 mg/kg Rat
- Primary irritant effect:**  
**Inhalation:** May be irritating to the respiratory system.  
**Skin Contact:** Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material. Harmful if absorbed through skin. Repeated exposure may cause skin dryness or cracking which may result in skin irritation and dermatitis (rash)  
**Eye Contact:** Causes serious irritation to eyes. Symptoms may include stinging, tearing, redness and swelling.
- Ingestion:**  
 Harmful if swallowed. Ingestion may cause gastrointestinal tract irritation.
- Sensitization:**  
 This product is considered a skin sensitizer
- Additional toxicological information:**  
 None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IASRC and therefore is not considered to be nor suspected to be cancer causing agents by these agencies
- Reproductive Toxicity Information:**  
 No information concerning the effects of this product and its components on the human reproductive system

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## 12 Ecological Information

### 12.1 Toxicity

#### Aquatic toxicity:

The product contains materials that are harmful and may cause long term damage to the environment

Daphnia magna EC50 10 mg/l

May cause long term damage to the environment

**12.2 Persistence and degradability:** No data available

**12.3 Bioaccumulative potential:** No data available

**12.4 Mobility in soil:** No evidence is currently available on this products effects on plants or animals

#### Ecotoxicological effects:

**Additional ecological information:** No data available

#### General notes:

No specific data is available for this product, however this product is expected to be readily biodegradable

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 13 Disposal Considerations

### 13.1 Waste treatment methods

#### Recommendation

**DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.** Must not be disposed together with household garbage. Do not allow product to reach sewage system. Always dispose of any waste in accordance with all local, state and federal regulations.

#### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations.

**RCRA Waste Code:** None listed.

**EU Waste Code:** None listed

## 14 Transport Information

### 14.1 UN-Number

Non-Regulated material

#### DOT

This product is not classified by the UN Economic

#### IMDG, IATA, ADR

Commission for Europe to be dangerous goods

### 14.2 UN proper shipping name

#### DOT,

None

#### IMDG, IATA, ADR

None

### 14.3 Transport hazard class(es)

#### DOT, ADR, AMDG, IATA

None

#### Class

#### Label

### 14.4 Packing group

None

#### DOT, ADR, IMDG, IATA

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**14.5 Environmental hazards:**

**Marine pollutant:**

This product does not contain ingredients that are classified by the DOT as a Marine Pollutant (as defined by 49CFR 172.101, Appendix B)

**14.6 Special precautions for user**

**Danger code (Kemler):**

No data available

**EMS Number:**

No data available

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

No data available

**Transport/Additional information:**

**ADR**

**Tunnel restriction code**

No data available

**UN "Model Regulation":**

No data available

## 15 Regulatory Information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
United States (USA)**

**SARA:**

This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

<b>Section 355 (extremely hazardous substances):</b> None of the ingredients listed
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<b>Section 313 (Specific toxic chemical listings):</b> None of the ingredients listed
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<b>TSCA (Toxic Substances Control Act):</b> All ingredients listed
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**Proposition 65 (California):**

<b>Chemicals known to cause cancer or reproductive harm:</b>
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<b>Chemicals known to cause cancer:</b> No components exist in this product
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<b>Chemicals known to cause reproductive toxicity for females:</b> No components exist in this product
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<b>Chemicals known to cause reproductive toxicity for males:</b> No components exist in this product
--

<b>Chemicals known to cause developmental toxicity:</b> No components exist in this product
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**Canada**

<b>Canadian Domestic Substances List (DSL):</b> All ingredients are listed.
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<b>Canadian Ingredient Disclosure list (limit 0.1%):</b> None of the ingredients are listed
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<b>Canadian Ingredient Disclosure list (limit 1%):</b> None of the ingredients are listed
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**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## 16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

H302 Harmful if swallowed  
H305 Harmful if swallowed and enters airways  
H312 Harmful if contact with skin  
H315 Causes Skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
P261 Avoid breathing dust/fumes/gas/mist/vapors/spray  
P264 Wash thoroughly after handling  
P270 Do not eat, drink or smoke when using this product  
P271 Use only in well ventilated area  
P272 Contaminated work clothing should not be allowed out of the work place  
P280 Wear protective gloves/clothing/eye protection/face protection  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/phiscian if you feel unwell  
P302+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing  
P302+P352 IF ON SKIN: Wash with plenty of soap and water  
P321 Specific Treatment (see First Aid section)  
P330 Rinse mouth  
P333+P313 If skin irritation or rash occurs, get medical advice/attention  
P337+P313 If eye irritation persists, get medical advice/attention  
P361+P364 Take off immediately all contaminated clothing and wash it before reuse  
P370+P378 In case of fire: Use for extinction CO<sub>2</sub>, powder or water spray  
P391 Collect spillage  
P403+P235 Store in a well ventilated place. Keep cool  
P501 Dispose of in accordance with local/regional/national/international regulations

### Abbreviations and Acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
ACGIH: American Conference of Governmental Industrial Hygienists  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk of his use of the material for either Component A and/or B or the combination of both components

Thermal-Chem is a registered Trademark of Thermal-Chem Corporation. Complies with Federal Standard No. 29 CFR 1910.1200

# Safety Data Sheet

Revision: 12/22/2015

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## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: **799 SewerTuff HM Part B**

Application of the substance / the preparation: Blended epoxy curing agent

### 1.3 Details of the supplier of the Safety Data Sheet

#### Manufacturer/Supplier:

Thermal-Chem Corporation  
2120 Roberts Drive  
Broadview, IL 60155 USA  
Tel(800)635-3773

1.4 Emergency contact: CHEMTREC®(800)424-9300

## 2 Hazards identification

### 2.1 Classification of the substance or mixture:

#### Classification according to Regulation (EC) No 1272/2008

Skin Corrosion - Category 1B

Serious Eye Damage - Category 1

Acute Dermal Toxicity - Category 4

Acute Oral Toxicity - Category 4

Skin Sensitization - Category 1

STOT SE - Category 3

Reproductive Toxicity - Category 2

Germ Cell Mutagenicity - Category 2

Aquatic Chronic - Category 2

### 2.2 Label elements

#### Labeling according to Regulation (EC) No 1272/2008:

The product is classified and labeled according to the CLP regulation.

#### Hazard pictograms



GHS05



GHS07



GHS08



GHS09

Signal word: Danger

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Trade name: **799 SewerTuff HM Part B**

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**Hazard statements:**

H302: Harmful if swallowed

H302+H332: Harmful if swallowed or inhaled

H312: Harmful in contact with skin

H314: Causes severe skin burns and eye damage

H317: May cause an allergic skin reaction

H318: Causes serious eye damage

H335: May cause respiratory irritation

H341: Suspected of causing genetic defects

H361: Suspected of damaging fertility or the unborn child

H361f: Suspected of damaging fertility. Suspected of damaging the unborn child

H411: Toxic to aquatic life with long lasting effects

H412: Harmful to aquatic life with long lasting effects

Contains Polyamido Amine, 3,6,9-triazaundecamethylenediamine, 2-piperazin-1-ylethylamine, bisphenol A, 2,2-iminodethylamine. May produce an allergic reaction

**Precautionary statements:**

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release into the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required

**Response statements:**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P308+P313: If exposed or concerned, get medical advice/attention

P310: Immediately call a POISON Center or doctor/physician

P312: Call a POISON CENTER/doctor/physician, if you feel unwell

P321: Specific treatment (see First Aid section in SDS)

P330: Rinse mouth

P333+P313: If skin irritation or rash occurs, get medical advice/attention

P337+P313: If eye irritation persists. Get medical attention

P363: Wash contaminated clothing before reuse

P370+P378: In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

P391: Collect spillage

P403+P233: Store in a well-ventilated place. Keep container tightly closed

P403+P235: Store in a well-ventilated place. Keep cool

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

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**Additional information:** Contains epoxy constituents. May produce an allergic reaction

**Hazard description**

**Canadian WHMIS Classification:**

E-Corrosive  
D2A-Very Toxic  
D2B-Toxic

**WHMIS-symbols:**

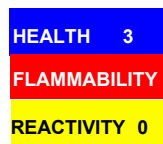


**NFPA ratings (scale 0 - 4)**



Health = 3  
Fire = 1  
Reactivity = 0

**HMIS-ratings (scale 0 - 4)**



Health = 3  
Flammability = 1  
Reactivity = 0

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 3 Composition/Information on Ingredients

**3.2 Mixtures:**

**Description:** Mixture of substances listed below

**Dangerous components:**

CAS: 68953-36-6 EINECS: 273-201-6	Polyamido Amine Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315 Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE3, H335	7 - 9%
CAS: 111-40-0 EINECS: 203-865-4 Index number: 612-058-00-X	2,2'-iminodiethylamine Skin Corr. 1B, H314 Acute Tox. 4, H302, Acute Tox. 4, H312; Skin Sens. 1, H317	
CAS: 80-05-7 EINECS: 201-245-8	Phenol,4,4'-(1-methylethylidene) bis Resp Irrit. 3, H335 Skin Eye Damage 1, H318 Skin Sens. 1, H317 Acute Tox., Aquatic 3, H402	

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CAS: 140-31-8 EINECS: 205-411-0	1-(2-Aminoethyl) piperazine Xn R21/22;  C R34;  Xn R43;  N R52/53 Skin Sens. 1, H317 Skin Corrosion 1B, H314 Acute Toxicity, Dermal 3, H312 Chronic Tox., Aquatic 3, H412	7-9%
CAS: 112-57-2 EINECS: 203-986-2	3,6,9-triazaundecamethylenediamine C R34;  Xn R21/22;  Xi R43;  N R51/53 Skin Corr. 1B, H314 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	17-19%
CAS: 84852-15-3 EINECS: 203-199-4	para-nonylphenol C R34;  Xn R22;  Xn R62/63;  N R50/53 Skin Corr. 1B, H314 Acute Toxicity, Oral 4, H302 Repr. Tox. 1A, H360 Aquatic Chronic 3 H412	14 - 17%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol Xn R20/22 Acute Tox. 4, H302; Acute Tox. 4, H332	2.5 - 4.5%
CAS: 2579-20-6 EINECS: 219-941-5	1,3-Cyclohexanedimethanamine C R35;  Xn R21/22;  R52/53 Skin Corr. 1A H314 Acute Tox. 4, 302; ACute Tox. 4, H312 Aquatic Chronic 3, 412	1-2%
CAS: 60112-98-3	Phenol, 4,4'-(1-methylethylidene)bis-,polymer with 2-(chloromethyl) oxirane and 1,3-cyclohexanedimethanamine Xi; R36/38;  Xi R43;  N R51/53 Aquatic Chronic 2, H311 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	1-2%

















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CAS: 39423-51-3 EINECS: 500-105-6	Poly[(methyl-1,2-ethanediyl)], alpha-hydro-omega-(2-aminomethylethoxy)-ether with 2-ethyl-2hydroxymethyl)-1,3-propanediol  Xn; R21/22;  Xi R41  N R51/53  Aquatic Chronic 2, H411  Eye Damage 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H312	11 - 14%
CAS: 25154-52-3 EINECS: 246-672-0 Index number: 601-053-00-8	Nonylphenol  C R34;  Xn R22-62-63;  N R50/53; Repr. Cat 3  Repr. 2, H361fd  Skin Corr. 1B, H314  Acute Tox. 4, H302  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	11 - 14%
CAS: 98479-04-9	Propane-1,3-diamine, n-[3-(tridecycloxy)propyl]-branched (adogen 583)  Xi R41;  Xn R21  Skin Corr. 1B, H314	

**3.4 Additional Information:** None

## 4 First aid measures

### 4.1 Description of first aid measure

#### General information:

Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours. therefore medical observation for at least 48 hours after accident

#### After inhalation:

Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. In case of unconsciousness place patient stably on side position for transportation.

#### After skin contact:

Immediately remove any clothing soiled by the product. Do not pull solidified product off the skin. Immediately rinse with water. If skin irritation continues, consult a doctor. Seek immediate medical help for blistering or open wounds.

#### After eye contact:

Protect unharmed eye. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor

#### After swallowing:

Rinse out mouth and then drink plenty water.  
 DO NOT induce vomiting; call for medical help immediately

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**4.2 Most important symptoms and effects, both acute and delayed**

- Headache
- Coughing
- Dizziness
- Breathing difficulty
- Gastric or intestinal disorders
- Caustic effect on skin and mucous membranes

**Hazards:**

- Danger of severe eye injury
- Danger of impaired breathin
- Danger of pulmonary oedema
- Condition may deteriorate with alcohol consumption

**4.3 Indications of any immediate medical attention and special treatment**

- Medical supervision for at least 48 hours
- If necessary oxygen respiration treatment - Later observation for pneumonia and pulmonary oedema
- Monitor circulation, possible shock tratment

## 5 Firefighting Measures

**5.1 Extinguishing media Suitable extinguishing agents:**

- Suitable extinguishing agents:**  
Carbon dioxide, foam, dry chemical, halon, water spray, sand or limestone powder

**5.2 For safety reasons unsuitable extinguishing agents:**

- Do not use water jet, as this will spread fire.

**5.3 Special hazards arising from the substance or mixture:**

- This product is flammable above the flash point indicated. Formation of toxic gasses is possible during heating or in case of fire.

**5.4 Advice for firefighters**

- Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk, otherwise cool with carefully with water fog or haze. If possible prevent runoff water from entering storm drains, bodies or water or other environmental sensitive areas

**5.5 Additional information:**

- Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

## 6 Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures**

- Personnel should be trained for spill response operations. Use respiratory protection device against the effects of fumes/dust/aerosol. Ensure adequate ventilation. Wear protective equipment, Keep unprotected persons away

**6.2 Environmental precautions:**

- All work practices must be aimed at eliminating environmental contamination. Do not allow to enter sewers, surface or ground water

**6.3 Methods and material for containment and cleaning up:**

- Contain spill if safe to do so. Prevent entry into drains, sewers and other waterways. Soak up with a non-combustible absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State and local procedures. (See Section 13, Disposal Considerations)

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## 7 Handling and Storage

### 7.1 Precautions for safe handling

As with all chemicals avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool location. Store between 5° and 50°C and avoid contact with skin and eyes. Do not store near acids. Ground all transferequipment. Hold bulk storage under a nitrogen blanket. This product should not come in contact with copper or copper-bearing alloys. Store away from oxidizing agents and foodstuffs. Do not store together with acids. Keep containers tightly closed

### 7.3 Specific end use(s):

No additional information

## 8 Exposure Controls/Personal Protection

### Additional information about design of technical facilities

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

111-40-0 2,2'-iminodiethylamine	
REL (USA)	4 mg/m <sup>3</sup> , 1 ppm Skin
TLV (USA)	4,2 mg/m <sup>3</sup> , 1 ppm Skin
EL (Canada)	1ppm Skin; S
112-57-0 3,6,9-triazaundecamethylenediamine	
WEEL (USA)	5 mg/m <sup>3</sup> Skin; DSEN
100-51-6 Benzyl alcohol	
WEEL (USA)	Long-term value: 10ppm

### 8.2 Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not inhale gases/fumes/aerosols. Pregnant women should strictly avoid inhalation or skin contact

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## Respiratory protection

Use suitable respiratory protection device when aerosol or mist is formed.  
Use suitable respiratory protection device in case of insufficient ventilation  
Use suitable respiratory protection device when grinding or cutting material  
For spills, respiratory protection is advisable



## Protective gloves

Select glove material impermeable and resistant to the substance.  
Select glove material based on rates of diffusion and degradation.  
Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.  
Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves.



## Body Protection:

Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards



## Eye protection:

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
Safety glasses or goggles are appropriate eye protection.



## General hygienic measures:

Perform routine housekeeping.  
Wash hands before breaks and at the end of work.  
Avoid contact with skin, eyes, and clothing.  
Before wearing wash contaminated clothing.

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## 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Appearance:

Form:	Liquid
Color:	Amber
Odor:	Ammonia like
Odor threshold:	Not determined

pH-value:	Alkaline
Change in condition	No data available
Freezing Point:	392°F (200°C)
Boiling point/Boiling range:	392°F (200°C)
Flash point:	217°F (103 °C)
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	599°F (315°C)
Decomposition temperature:	Not determined
Self-igniting:	Product is not selfigniting
Danger of explosion:	This product is flammable above flash point indicated
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapour Pressure (mmHg):	15.6 mmHg @ 21°C
Density at 20°C:.	1.02 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water:	Fully miscible
Specific Gravity 20°C: (Water = 1):	No data available
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	205 - 350 cPs
Kinematic:	No data available
Solvent content:	
Organic solvents:	No data available
VOC (EC)	No data available

9.2 Other information: No data available

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**10 Stability and Reactivity**

- **10.1 Reactivity:** Non-reactive under normal conditions.
- **10.2 Chemical stability:** Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:**  
When heated to decomposition this product produces noxious gases such as CO, CO<sub>2</sub>, NO<sub>x</sub>, amines, ammonia and others
- **10.3 Possibility of hazardous reactions:** Toxic fumes may be released if heated above the decomposition point. Reacts with peroxides and other radical forming substances. Reacts with oxidizing agents. Exothermic reaction with acids.
- **10.4 Conditions to avoid:** Contact with incompatible materials. Store away from oxidizing agents
- **10.5 Incompatible materials:** Oxidizing agents and isocyanates and polyurethanes should be avoided as these will cause exothermic polymerization. Avoid extreme heat
- **10.6 Hazardous decomposition products:**  
Ammonia  
Carbon monoxide and Carbon Dioxide  
Nitrogen oxides (NO<sub>x</sub>)

**11 Toxicological Information**

- **11.1 Information on toxicological effects**  
**Acute toxicity**

<b>111-40-0 2,2'-iminodiethylamine</b>		
Oral	LD50	1080 mg/kg (rat)
Dermal	LD50	1090 mg/kg (rabbit)
<b>112-57-2 3,6,9-triazaundecamethylenediamine</b>		
Dermal	LD50	660 mg/kg (rabbit)
<b>140-31-8 1-(2-Aminoethyl) piperazine</b>		
Oral	LD50	2140 mg/kg (rat)
Dermal	LD50	880 mg/kg (rabbit)
<b>80-05-7 Phenol,4,4'-(1-methylethylidene) bis</b>		
Oral	LD50	3250 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rabbit)
<b>100-51-6 Benzyl alcohol</b>		
Oral	LD50	1230 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
<b>2579-20-6 1,3-Cyclohexanedimethanamine</b>		
Oral	LD50	880 mg/kg (rat)
Dermal	LD50	1700 mg/kg (rabbit)
<b>39423-51-3 Poly [9methyl-1,2ethanediyl]], alpha-hydro-omega-(2-aminomethylethoxy)-ether with 2- ethyl-2(hydroxymethyl)-1,3-propanediol</b>		
Oral	LD50	220 mg/kg (rat)
<b>25154-52-3 nonylphenol</b>		
Oral	LD50	1620 mg/kg (rat)

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**11.2 Primary irritant effect:****On Skin:** Strong caustic effect on skin and mucous membranes**On Eyes:** Strong caustic effect**11.3 Sensitization:**

Sensitization possible through skin contact

Sensitizing effect through inhalation is possible by prolonged exposure

**11.4 Additional toxicological information:**

This product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version

Harmful - Corrosive - Irritant - Danger through skin absorption

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. Toxic and/or corrosive effects may be delayed up to 24 hours. Suspected of damaging fertility of the unborn child

**Repeated dose toxicity:**

May cause damage to organs through prolonged or repeated exposure. Repeated exposure may result in skin and/or respiratory sensitivity

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** Repr 2**12 Ecological Information****12.1 Toxicity****Aquatic toxicity:** the product contains materials that are harmful to the environment**12.2 Persistence and degradability:** Moderately/partly biodegradable**12.3 Bioaccumulative potential:** Due to distribution coefficient n-octanol/water an accumulation in organism possible**12.4 Mobility in soil:** No further relevant information available**Ecotoxicological effects:****Remark:** Toxic for fish

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen. Due to mechanical actions of the product (e.g. agglutinations) damages may occur

**General notes:**

Water hazard class 3 (German Regulation) (Self-assessment) extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

**12.5 Results of PBT and vPvB assessment****PBT:** No additional information.**vPvB:** No additional information.**12.6 Other adverse effects:**

No information available.

**13 Disposal Considerations****13.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)****Relevant Information:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations

Dispose of container and unused contents in accordance with federal, state and local requirements


**RCRA Waste Code:** D002**EU Waste Code:** Not listed

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**14 Transport Information**

<b>14.1 UN-Number:</b> DOT, IMDG, IATA, ADR, ADN	UN2735
<b>14.2 UN-Proper Shipping Name</b> DOT, IMDG, IATA, ADR, ADN	Amines, liquid, corrosive n.o.s. (Alkyl ether amine)
<b>14.3 Transport hazard class(es)</b> DOT, ADR, IMDG, IATA	 <b>Class 8</b> <b>Label 8 Corrosive</b>
<b>14.4 Packing group</b> DOT, ADR, IMDG, IATA, ADN	II
<b>14.5 Environmental hazards:</b>	No
<b>14.6 Special precautions for user</b> Danger code (Kemler): EMS Number: Segregation:	Corrosive substances. No data available No data available No data available
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>14.8 Transport/Additional information:</b> Transportation category Tunnel restriction code UN "Model Regulation":	No data available No data available UN2735, Amines, liquid, corrosive n.o.s. (Alkyl ether amine)

**15 Regulatory Information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
North American

## SARA:

<b>Section 302 (Extremely hazardous chemical listings):</b> None of the ingredients are listed.
<b>Section 313 (Specific toxic chemical listings):</b> Phenol, 4,4'-(1-methylethylidene)bis 80-05-7
<b>Section 355 (extremely hazardous substances):</b> None of the ingredients are listed.
<b>CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable Spill Quantity:</b> None of the ingredients are listed.
<b>TSCA (Toxic Substances Control Act):</b> Inventory: All ingredients are listed. Rules and Orders: None of the ingredients are listed.
<b>NTP (National Toxicology Program):</b> None of the ingredients are listed.

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· **Proposition 65 (California):**

**Chemicals known to cause cancer:** None of the ingredients are listed

**Chemicals known to cause reproductive toxicity for females:** None of the ingredients are listed

**Chemicals known to cause reproductive toxicity for males:** None of the ingredients are listed

**Chemicals known to cause developmental toxicity:** None of the ingredients are listed

· **Carcinogenic Categories**

**EPA (Environmental Protection Agency)** None of the ingredients are listed

**TLV (Threshold Limit Value established by ACGIH)** None of the ingredients are listed

**NIOSH-Ca (National Institute for Occupational Safety and Health)** None of the ingredients are listed

**OSHA-Ca (Occupational Safety & Health Administration)** None of the ingredients are listed

· **Canada**

**Canadian Domestic Substances List (DSL)**

All ingredients are listed.

**Canadian Ingredient Disclosure list (limit 0.1%):**

2,2'-imimodiethylamine 111-40-0

Salicylic acid 69-72-7

**Canadian Ingredient Disclosure list (limit 1%):**

Benzyl alcoho 100-51-6

Nonylphenol 25154-52-3

3,6,9-triazaundecamethylenediamine 112-57-2

2-piperazin-1-ylethylamine 140-21-8

bisphenol A 80-05-7

· **European REACH**

None of the ingredients are listed.

European Inventory of Existing Commercial Chemical Substances (EINECS).

Europe-European List of Notified Chemical Substances (ELINECS)

· **Australia**

**Australian Inventory of Chemical Substances (AICS):** All substances are listed.

· **China**

**Inventory of Existing Chemical Substances in China (IECSC):** All substances are listed

· **Japan**

**Inventory of Existing and New Chemical Substances (ENCS):** All substances are listed

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**Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

**Substances of very high concern (SVHC) according to REACH, Article 57:**

Nonylphenol	25154-52-3
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**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other Information**

**This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.**

**Relevant phrases**

H302: Harmful if swallowed  
 H302+H332: Harmful if swallowed or inhaled  
 H312: Harmful in contact with skin  
 H314: Causes severe skin burns and eye damage  
 H317: May cause an allergic skin reaction  
 H318: Causes serious eye damage  
 H335: May cause respiratory irritation  
 H341: Suspected of causing genetic defects  
 H361: Suspected of damaging fertility or the unborn child  
 H361f: Suspected of damaging fertility. Suspected of damaging the unborn child  
 H411: Toxic to aquatic life with long lasting effects  
 H412: Harmful to aquatic life with long lasting effects  
 P201 Obtain special instructions before use  
 P202 Do not handle until all safety precautions have been read and understood  
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release into the environment  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P281 Use personal protective equipment as required  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician  
 P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P308+P313: If exposed or concerned, get medical advice/attention  
 P310: Immediately call a POISON Center or doctor/physician  
 P312: Call a POISON CENTER/doctor/physician, if you feel unwell  
 P321: Specific treatment (see First Aid section in SDS)  
 P330: Rinse mouth  
 P333+P313: If skin irritation or rash occurs, get medical advice/attention  
 P337+P313: If eye irritation persists. Get medical attention

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P363: Wash contaminated clothing before reuse  
P370+P378: In case of fire: Use for extinction: CO2, powder or water spray.  
P391: Collect spillage  
P403+P233: Store in a well-ventilated place. Keep container tightly closed  
P403+P235: Store in a well-ventilated place. Keep cool  
P405: Store locked up  
P501: Dispose of contents/containers in accordance with local/regional/national/international regulations

#### Abbreviations and Acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
ACGIH: American Conference of Governmental Industrial Hygienists  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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