Conforms to HCS 2012 - United States

Compliant SDS for GHS - Canada WHMIS 2015

# SAFETY DATA SHEET

## ALSAN FLOOR EP 440 PART B

## Section 1. Identification

**GHS product identifier** : Alsan Floor EP 440 Part B

**Document product code** :

**Other means of identification** : Not available.

**Product type** : Liquid.

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

Hardener for epoxy topcoat.

**Supplier/Manufacturer** :
SOPREMA Canada
1640 rue Haggerty
Drummondville (Québec) J2C 5P8
CANADA
Tél.: 819-478-8163

**Emergency telephone number (with hours of operation)** :
SOPREMA Inc. / CANUTEC / CHEMTREC
+1 (800) 567-1492 (SOPREMA Inc.) / +1 (613) 996-6666 (CANUTEC) / +1 (800) 424-9300 (CHEMTREC Acct.# CCN20515)
SOPREMA Inc. (8h00-17h00) / CANUTEC (24h) / CHEMTREC (24h)

## Section 2. Hazard(s) identification

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

**Classification of the substance or mixture** :
SKIN CORROSION/IRRITATION - Category 1A
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
SKIN SENSITIZATION - Category 1
TOXIC TO REPRODUCTION - Category 2
AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 1

**GHS label elements**

**Signal word** : Danger

**Hazard statements** :
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H361 - Suspected of damaging fertility or the unborn child.
H410 - Very toxic to aquatic life with long lasting effects.

## Section 2. Hazard(s) identification

**Precautionary statements**

**Prevention** : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapor.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.

**Response** : P391 - Collect spillage.
P308 + P313 - IF exposed or concerned: Get medical advice or attention.
P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
P363 - Wash contaminated clothing before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Storage** : P405 - Store locked up.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified (US)** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

| Ingredient name | % (w/w) | CAS number |
|---|---|---|
| Poly[oxy(Methyl-1,2-Ethanediyl)], α-(2-Aminomethylethyl)-ω-(2-Aminomethylethoxy)- | 15 - 40 | 9046-10-0 |
| 4-Nonylphenol, Branched | 15 - 40 | 84852-15-3 |
| 2-Methylpentane-1,5-diamine | 10 - 30 | 15520-10-2 |
| Reaction Product: Bisphenol-A-(Epichlorhydrin); Epoxy Resin | 7 - 13 | 25068-38-6 |
| Benzyl alcohol | 5 - 10 | 100-51-6 |
| 1,3-bis(2,3-Epoxypropoxy)-2,2-Dimethylpropane | 1 - 5 | 17557-23-2 |

**United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.**
**Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.**

**There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

# Section 4. First aid measures

## Description of necessary first aid measures

**Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

**Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

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

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

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

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

### Over-exposure signs/symptoms

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

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

# Section 4. First aid measures

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

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

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

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**See toxicological information (Section 11)**

# Section 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

**Methods and materials for containment and cleaning up**

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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

## Section 7. Handling and storage

**Precautions for safe handling**

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

# Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

## Control parameters

### United States

#### Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| Poly[oxy(Methyl-1,2-Ethanediyl)], α-(2-Aminomethylethyl)-ω-(2-Aminomethylethoxy)- | None. |
| 4-Nonylphenol, Branched | None. |
| 2-Methylpentane-1,5-diamine | None. |
| Reaction Product: Bisphenol-A-(Epichlorhydrin); Epoxy Resin | None. |
| Benzyl alcohol | **AIHA WEEL (United States, 7/2018).** TWA: 10 ppm 8 hours. |
| 1,3-bis(2,3-Epoxypropoxy)-2,2-Dimethylpropane | None. |

### Canada

#### Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| Benzyl alcohol | **AIHA WEEL (United States, 7/2018).** TWA: 10 ppm 8 hours. |

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

## Section 8. Exposure controls/personal protection

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Color** : Clear to yellowish.

**Odor** : Not available.

**Odor threshold** : Not available.

**pH** : Not available.

**Melting/freezing point** : Not available.

**Initial boiling point and boiling range** : Not available.

**Flash point** : Not available.

**Evaporation rate** : Not available.

**Flammability (solid, gas)** : Not applicable.

**Lower and upper explosive (flammable) limits** : Not available.

**Vapor pressure** : Not available.

**Vapor density** : Not available.

**Relative density** : Not available.

**Solubility** : Not available.

**Solubility in water** : Not available.

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

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**Viscosity** : Not available.

**Flow time (ISO 2431)** : Not available.

**VOC = Volatile Organic Compound** : N/A

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : No specific data.

**Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| 4-Nonylphenol, Branched | LD50 Oral | Rat | 1300 mg/kg | - |
| 2-Methylpentane-1,5-diamine | LC50 Inhalation Vapor | Rat | 2900 mg/m³ | 1 hours |
| | LD50 Oral | Rat | 1690 mg/kg | - |
| Benzyl alcohol | LD50 Dermal | Rabbit | 2000 mg/kg | - |
| | LD50 Oral | Rat | 1230 mg/kg | - |
| 1,3-bis(2,3-Epoxypropoxy) -2,2-Dimethylpropane | LD50 Oral | Rat | 4500 mg/kg | - |

#### Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| 4-Nonylphenol, Branched | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 500 mg | - |
| 2-Methylpentane-1,5-diamine | Eyes - Severe irritant | Rabbit | - | 0.1 mL | - |
| | Skin - Severe irritant | Rabbit | - | 0.5 mL | - |
| Reaction Product: Bisphenol-A-(Epichlorhydrin); Epoxy Resin | Eyes - Mild irritant | Rabbit | - | 100 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 µL | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 2 mg | - |

#### Sensitization

There is no data available.

#### Mutagenicity

There is no data available.

#### Carcinogenicity

There is no data available.

# Section 11. Toxicological information

## Reproductive toxicity

There is no data available.

## Teratogenicity

There is no data available.

## Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| 2-Methylpentane-1,5-diamine | Category 3 | - | Respiratory tract irritation |

## Specific target organ toxicity (repeated exposure)

There is no data available.

## Aspiration hazard

| Name | Result |
|---|---|
| Poly[oxy(Methyl-1,2-Ethanediyl)], α-(2-Aminomethylethyl)-ω-(2-Aminomethylethoxy)- | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation.

## Potential acute health effects

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

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

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

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

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

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

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

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

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

# Section 11. Toxicological information

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

### Short term exposure

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

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

### Long term exposure

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

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

### Potential chronic health effects

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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

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

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

## Numerical measures of toxicity

### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| | 2668.7 | 7477 | N/A | 74.8 | 16.7 |
| 4-Nonylphenol, Branched | 1300 | N/A | N/A | N/A | N/A |
| 2-Methylpentane-1,5-diamine | 1690 | 1100 | N/A | 11 | N/A |
| Benzyl alcohol | 1230 | N/A | N/A | N/A | 1.5 |
| 1,3-bis(2,3-Epoxypropoxy)-2,2-Dimethylpropane | 4500 | N/A | N/A | N/A | N/A |

# Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| 4-Nonylphenol, Branched | Acute EC50 0.03 mg/L Marine water | Algae - Skeletonema costatum | 72 hours |
| | Acute EC50 0.027 mg/L Marine water | Algae - Skeletonema costatum | 96 hours |
| | Acute EC50 137 µg/L Marine water | Crustaceans - Eohaustorius estuarius - Adult | 48 hours |
| | Acute LC50 17 µg/L Marine water | Fish - Pleuronectes americanus - Larvae | 96 hours |
| | Chronic EC10 0.012 mg/L Marine water | Algae - Skeletonema costatum | 96 hours |
| | Chronic NOEC 5 µg/L Fresh water | Crustaceans - Gammarus fossarum - Adult | 21 days |
| | Chronic NOEC 7.4 µg/L Fresh water | Fish - Pimephales promelas - Embryo | 33 days |
| Benzyl alcohol | Acute LC50 460000 µg/L Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |

# Section 12. Ecological information

## Persistence and degradability

There is no data available.

## Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| Poly[oxy(Methyl-1,2-Ethanediyl)], α-(2-Aminomethylethyl)- ω-(2-Aminomethylethoxy)- | 1.34 | - | low |
| 4-Nonylphenol, Branched | 5.4 | 740 | high |
| Reaction Product: Bisphenol-A-(Epichlorhydrin); Epoxy Resin | 2.64 to 3.78 | 31 | low |
| Benzyl alcohol | 0.87 | - | low |

## Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

| | DOT Classification | TDG Classification | IMDG | IATA |
|---|---|---|---|---|
| **UN number** | UN2735 | UN2735 | UN2735 | UN2735 |
| **UN proper shipping name** | AMINES, LIQUID, CORROSIVE, N.O.S. (Poly[oxy(Methyl-1,2-Ethanediyl)], α-(2-Aminomethylethyl)- ω-(2-Aminomethylethoxy)-, 4-Nonylphenol, Branched) | AMINES, LIQUID, CORROSIVE, N.O.S. (Poly[oxy(Methyl-1,2-Ethanediyl)], α-(2-Aminomethylethyl)- ω-(2-Aminomethylethoxy)-, 4-Nonylphenol, Branched) | AMINES, LIQUID, CORROSIVE, N.O.S. (Poly[oxy(Methyl-1,2-Ethanediyl)], α-(2-Aminomethylethyl)- ω-(2-Aminomethylethoxy)-, 4-Nonylphenol, Branched) | AMINES, LIQUID, CORROSIVE, N.O.S. (Poly[oxy(Methyl-1,2-Ethanediyl)], α-(2-Aminomethylethyl)- ω-(2-Aminomethylethoxy)-, 4-Nonylphenol, Branched) |
| **Transport hazard class(es)** | 8 | 8 | 8 | 8 |

## Section 14. Transport information

| | | | | |
|---|---|---|---|---|
| **Packing group** | III | III | III | III |
| **Environmental hazards** | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |

**AERG** : 153

**Additional information**

**DOT Classification** : This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

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

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 5(a)2 final significant new use rules**: 4-Nonylphenol, Branched
**TSCA 8(a) PAIR**: 4-Nonylphenol, Branched
**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
**TSCA 12(b) one-time export**: 4-Nonylphenol, Branched
**Clean Water Act (CWA) 307**: Phenol
**Clean Water Act (CWA) 311**: Phenol

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

# Section 15. Regulatory information

## SARA 302/304

### Composition/information on ingredients

| Name | % | EHS | SARA 302 TPQ | | SARA 304 RQ | |
|---|---|---|---|---|---|---|
| | | | (lbs) | (gallons) | (lbs) | (gallons) |
| Phenol | ≤0.3 | Yes. | 500 / 10000 | - | 1000 | - |

**SARA 304 RQ** : 357142.9 lbs / 162142.9 kg

## SARA 311/312

**Classification** : SKIN CORROSION/IRRITATION - Category 1A
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
SKIN SENSITIZATION - Category 1
TOXIC TO REPRODUCTION - Category 2

### Composition/information on ingredients

| Name | % | Classification |
|---|---|---|
| Poly[oxy(Methyl-1,2-Ethanediyl)], α-(2-Aminomethylethyl)- ω-(2-Aminomethylethoxy)- | ≥25 - ≤50 | SKIN CORROSION/IRRITATION - Category 1C<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1<br>ASPIRATION HAZARD - Category 1 |
| 4-Nonylphenol, Branched | ≥25 - ≤37 | ACUTE TOXICITY (oral) - Category 4<br>SKIN CORROSION/IRRITATION - Category 1B<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1<br>TOXIC TO REPRODUCTION - Category 2 |
| 2-Methylpentane-1,5-diamine | ≥10 - ≤19 | FLAMMABLE LIQUIDS - Category 4<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN CORROSION/IRRITATION - Category 1A<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Reaction Product: Bisphenol-A-(Epichlorhydrin); Epoxy Resin | ≥10 - ≤25 | SKIN CORROSION/IRRITATION - Category 2<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A<br>SKIN SENSITIZATION - Category 1 |
| Benzyl alcohol | ≥5 - ≤10 | ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4 |
| 1,3-bis(2,3-Epoxypropoxy) -2,2-Dimethylpropane | ≥1 - ≤3 | SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITIZATION - Category 1 |

## SARA 313

| | Product name | CAS number | % |
|---|---|---|---|
| **Form R - Reporting requirements** | 4-Nonylphenol, Branched | 84852-15-3 | ≥25 - ≤37 |
| **Supplier notification** | 4-Nonylphenol, Branched | 84852-15-3 | ≥25 - ≤37 |

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

## State regulations

**Massachusetts** : The following components are listed: Benzyl alcohol

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : The following components are listed: Benzyl alcohol

# Section 15. Regulatory information

## California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

## Canadian lists

**Canadian NPRI** : The following components are listed: 4-Nonylphenol, Branched

**CEPA Toxic substances** : The following components are listed: 4-Nonylphenol, Branched

## International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## Inventory list

**Australia** : Not determined.

**Canada** : At least one component is not listed in DSL but all such components are listed in NDSL.

**China** : All components are listed or exempted.

**Europe** : Not determined.

**Japan** : **Japan inventory (ENCS)**: All components are listed or exempted.
**Japan inventory (ISHL)**: Not determined.

**New Zealand** : Not determined.

**Philippines** : Not determined.

**Republic of Korea** : All components are listed or exempted.

**Taiwan** : All components are listed or exempted.

**Thailand** : Not determined.

**Turkey** : Not determined.

**United States (TSCA 8b)** : All components are active or exempted.

**Viet Nam** : All components are listed or exempted.

# Section 16. Other information

## Procedure used to derive the classification

| Classification | Justification |
|---|---|
| SKIN CORROSION/IRRITATION - Category 1A | Calculation method |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 | Calculation method |
| SKIN SENSITIZATION - Category 1 | Calculation method |
| TOXIC TO REPRODUCTION - Category 2 | Calculation method |
| AQUATIC HAZARD (ACUTE) - Category 1 | Calculation method |
| AQUATIC HAZARD (LONG-TERM) - Category 1 | Calculation method |

# Section 16. Other information

## History

**Date of issue/Date of revision** : 10/15/2020

**Date of previous issue** : Not applicable

**Version** : 1

**Prepared by** : KMK Regulatory Services Inc.

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

**Internal code** : 261-170

**Notice to reader**

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