

Classic Ultra (LDC-50-v2.7.2)

SDS Preparation Date (mm/dd/yyyy): 10/16/2017

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Classic Ultra** (LDC-50-v2.7.2)

Recommended use of the chemical and restrictions on use

: Spray foam.
Recommended restrictions: None known.

Chemical family : Mixture

Name, address, and telephone number
of the supplier:

Huntsman Building Solutions
3315 E. Division Street,
Arlington, TX 76011
Tel: 817-640-4900 , 888-224-1533
sdsinfo@huntsmanbuilds.com

Name, address, and telephone number of
the manufacturer:

Refer to supplier

24 Hr. Emergency Tel # : CHEMTREC (24 hours) 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

White liquid. Amine odour.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Acute toxicity, oral - Category 4
Skin Corrosion/Irritation - Category 1
Serious eye damage/eye irritation - Category 1

Label elements

Hazard pictogram(s)



Signal Word

Danger

Hazard statement(s)

Harmful if swallowed.
Causes severe skin burns and eye damage.

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Precautionary statement(s)

Do not breathe mist or vapor.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/clothing and eye/face protection.

Immediately call a POISON CENTRE or doctor/physician.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification: Ingestion may cause severe irritation to the mouth, throat and stomach.:

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| <u>Chemical name</u> | <u>Common name and synonyms</u> | <u>CAS #</u> | <u>Concentration (% by weight)</u> |
|--|--|--------------|------------------------------------|
| Tris(2-chloroisopropyl) phosphate | Phosphoric trichloride, reaction products with propylene oxide 2,2,4-Trimethyl-1,3-pentanediol mono(2-methylpropanoate) | 1244733-77-4 | 30.0 - 40.0 |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- | N,N,N',N'-Tetramethyldipropyle netriamine Bis(3-dimethylaminopropyl)amine | 6711-48-4 | 5.0 - 10.0 |
| Dimethylaminoethoxyethanol | DMEE | 1704-62-7 | 1.0 - 3.0 |
| 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- | Bis (dimethylaminopropyl) methylamine Pentamethyldipropylene triamine | 3855-32-1 | 1.0 - 3.0 |
| Polyoxypropylenediamine | Polyoxyalkyleneamine | 9046-10-0 | 0.5 - 1.0 |

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use.
- Eye contact* : For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

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Most important symptoms and effects, both acute and delayed

- : Causes skin burns. Contact may cause redness, swelling and a painful sensation. Can cause irritation, redness, tearing, and blurred vision and/or eye damage. Ingestion may cause severe irritation to the mouth, throat and stomach. If mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract.

Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog .

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Burning produces obnoxious and toxic fumes.

Flammability classification (OSHA 29 CFR 1910.106)

- : Non-flammable.

Hazardous combustion products

- : Carbon dioxide and carbon monoxide.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

- Environmental precautions** : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

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- : Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
- Conditions for safe storage** : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking.
- Incompatible materials** : Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Exposure Limits:</u> | | | | | |
|---|----------------------|------------------|-------------|-----------------|-------------|
| | <u>Chemical Name</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> | |
| | | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> | <u>STEL</u> |
| Tris(2-chloroisopropyl) phosphate | N/Av | N/Av | N/Av | N/Av | |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- | N/Av | N/Av | N/Av | N/Av | |
| Dimethylaminoethoxyethanol | N/Av | N/Av | N/Av | N/Av | |
| 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N,N'-trimethyl- | N/Av | N/Av | N/Av | N/Av | |
| Polyoxypropylenediamine | N/Av | N/Av | N/Av | N/Av | |

Exposure controls

Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

- : Wear protective gloves/clothing. Advice should be sought from glove suppliers.

Eye / face protection

- : Wear eye/face protection. Tightly fitting safety goggles

Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : White liquid.
- Odour** : Amine odour.
- Odour threshold** : No information available.

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pH : Not available.
Melting/Freezing point : No information available.
Initial boiling point and boiling range : N/Av
Flash point : Not flammable
Flashpoint (Method) : N/Av
Evaporation rate (BuAe = 1) : N/Av
Flammability (solid, gas) : Not applicable.
Lower flammable limit (% by vol.) : Not applicable.
Upper flammable limit (% by vol.) : Not applicable.
Oxidizing properties : None known.
Explosive properties : Not explosive
Vapour pressure : N/Av
Vapour density : N/Av
Relative density / Specific gravity : Not available.
Solubility in water : Soluble
Other solubility(ies) : No information available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : No information available.
Auto-ignition temperature : No information available.
Decomposition temperature : No information available.
Viscosity : Not available.
Volatiles (% by weight) : N/Av
Volatile organic Compounds (VOC's) : N/Av
Absolute pressure of container : Not applicable.
Flame projection length : Not applicable.
Other physical/chemical comments : No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Hazardous polymerization does not occur.
Conditions to avoid : Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Keep away from extreme heat and flame.
Incompatible materials : See Section 7 (Handling and Storage) for further details.
Hazardous decomposition products : See Section 5 (Fire Fighting Measures).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

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Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption
: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: If mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract.

Sign and symptoms ingestion

: Harmful if swallowed. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

Sign and symptoms skin

: Causes severe skin irritation. Symptoms may include blistering, ulcerations and scarring.

Sign and symptoms eyes

: Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Permanent eye damage including blindness could result.

Potential Chronic Health Effects

: Chronic skin contact with low concentrations may cause dermatitis.

Mutagenicity

: Not expected to be mutagenic in humans.

Carcinogenicity

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

Sensitization to material

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

: This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials

: No information available.

Toxicological data

: There is no data available for this product. The calculated ATE values for this mixture are: ATE oral = 1447.60 mg/kg

ATE dermal = 3959.66 mg/kg

| Chemical name | LC ₅₀ (4hr) inh. rat | LD ₅₀ | |
|---|---|--------------------------------|---|
| | | (Oral, rat) | (Rabbit, dermal) |
| Tris(2-chloroisopropyl) phosphate | > 4.6 mg/L (aerosol) (No mortality) (Read-across) | 632 - 2000 mg/kg (Read-across) | > 2000 mg/kg (No mortality) (Read-across) |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- | N/Av | > 1250, < 1600 mg/kg | 370 mg/kg |
| Dimethylaminoethoxyethanol | >0.39 mg/L | >2150-<3830mg/kg | 1653-2033 mg/kg |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- | N/Av | 1389.4 mg/kg | 992.4 mg/kg |
| Polyoxypropylenediamine | > 1.48 mg/L (mist) (No mortality) | 1343 mg/kg | 2979.7 mg/kg |

Other important toxicological hazards

: None reported by the manufacturer.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Harmful to aquatic life with long lasting effects. Do not release, unmonitored, into the environment.

Ecotoxicity data:

| <u>Ingredients</u> | CAS No | Toxicity to Fish | | |
|--|--------------|--|-------------------------------|----------|
| | | LC50 / 96h | NOEC / 21 day | M Factor |
| Tris(2-chloroisopropyl) phosphate | 1244733-77-4 | 51 mg/L (Fathead minnow) (Read-across) | 5.2 mg/L (QSAR) (Read-across) | None. |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- | 6711-48-4 | 21.4 - 47 mg/L (Zebra fish) | N/Av | None. |
| Dimethylaminoethoxyethanol | 1704-62-7 | 320 mg/L (Leuciscus idus) | N/Av | None. |
| 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- | 3855-32-1 | 92.5 mg/L (Zebra fish) | N/Av | None. |
| Polyoxypropylenediamine | 9046-10-0 | > 15 mg/L (Rainbow trout) | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Daphnia | | |
|--|--------------|--|-----------------------|----------|
| | | EC50 / 48h | NOEC / 21 day | M Factor |
| Tris(2-chloroisopropyl) phosphate | 1244733-77-4 | 131 mg/L (Daphnia magna) (Read-across) | 32 mg/L (Read-across) | None. |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- | 6711-48-4 | 50.3 mg/L (Daphnia magna) | 3.5 mg/L (QSAR) | None. |
| Dimethylaminoethoxyethanol | 1704-62-7 | >100 mg/L (Daphnia magna) | N/Av | None. |
| 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- | 3855-32-1 | 35.4 mg/L (Daphnia magna) | N/Av | None. |
| Polyoxypropylenediamine | 9046-10-0 | 80 mg/L (Daphnia magna) | N/Av | None. |

| <u>Ingredients</u> | CAS No | Toxicity to Algae | | |
|--|--------------|--|----------------------------|----------|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor |
| Tris(2-chloroisopropyl) phosphate | 1244733-77-4 | 82 mg/L/72hr (Green algae) (Read-across) | 13 mg/L/72hr (Read-across) | None. |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- | 6711-48-4 | 7.9 mg/L/72hr (Green algae) | 1.2 mg/L/72hr | None. |
| Dimethylaminoethoxyethanol | 1704-62-7 | 160 mg/L | 40 mg/L | None. |
| 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- | 3855-32-1 | 74.9 mg/L/72hr | N/Av | None. |
| Polyoxypropylenediamine | 9046-10-0 | 15 mg/L/72hr (Green algae) | 0.32 mg/L/72hr | None. |

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Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential

: No data is available on the product itself.

| <u>Components</u> | <u>Partition coefficient n-octanol/water (log Kow)</u> | <u>Bioconcentration factor (BCF)</u> |
|--|--|--------------------------------------|
| Tris(2-chloroisopropyl) phosphate (CAS 1244733-77-4) | 2.59 | 1.9-4.6 |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- (CAS 6711-48-4) | 0.214 | N/Av |
| Dimethylaminoethoxyethanol (CAS 1704-62-7) | 0.778 | 3.16 |
| 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- (CAS 3855-32-1) | 0 | 2 |
| Polyoxypropylenediamine (CAS 9046-10-0) | 1.34 | N/Av |

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.


Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

| Regulatory Information | UN Number | UN proper shipping name | Transport hazard class(es) | Packing Group | Label |
|---|-----------|-------------------------|----------------------------|---------------|---|
| 49CFR/DOT | None. | Not regulated. | not regulated | none |  |
| 49CFR/DOT Additional information | None. | | | | |
| TDG | None. | Not regulated. | not regulated | none |  |
| TDG Additional information | None. | | | | |

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- Special precautions for user** : Appropriate advice on safety must accompany the package.
Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

| Ingredients | CAS # | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical | |
|--|--------------|----------------|--|--|---|--------------------------|
| | | | | | Toxic Chemical | de minimus Concentration |
| Tris(2-chloroisopropyl) phosphate | 1244733-77-4 | Yes | None. | None. | No | N/Ap |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- | 6711-48-4 | Yes | None. | None. | No | N/Ap |
| Dimethylaminoethoxyethanol | 1704-62-7 | Yes | N/Ap | N/Av | No | N/Ap |
| 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- | 3855-32-1 | Yes | None. | None. | No | N/Ap |
| Polyoxypropylenediamine | 9046-10-0 | Yes | None. | None. | No | N/Ap |

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Acute toxicity ; Skin corrosion; Eye Damage. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

| Ingredients | CAS # | California Proposition 65 | | State "Right to Know" Lists | | | | | |
|--|--------------|---------------------------|------------------|-----------------------------|----|----|----|----|----|
| | | Listed | Type of Toxicity | CA | MA | MN | NJ | PA | RI |
| Tris(2-chloroisopropyl) phosphate | 1244733-77-4 | No | N/Ap | No | No | No | No | No | No |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- | 6711-48-4 | No | N/Ap | No | No | No | No | No | No |
| Dimethylaminoethoxyethanol | 1704-62-7 | No | N/Ap | No | No | No | No | No | No |
| 1,3-Propanediamine, N-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- | 3855-32-1 | No | N/Ap | No | No | No | No | No | No |
| Polyoxypropylenediamine | 9046-10-0 | No | N/Ap | No | No | No | No | No | No |

Canadian Information:

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Canadian Environmental Protection Act (CEPA): All ingredients listed appear on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

| Ingredients | CAS # | European EINECS | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
|---|--------------|------------------------|-----------------------|--------------------------|--------------------|------------------------|--------------------|--|
| Tris(2-chloroisopropyl) phosphate | 1244733-77-4 | 911-815-4 | Present | Present | (2)-3729, (2)-2951 | KE-05878 | Present | HSR004044 |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- | 6711-48-4 | 229-761-9 | Present | Present | Not listed | 2002-1-528; KE-05-0505 | Present | May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right. |
| Dimethylaminoethoxyethanol | 1704-62-7 | 216-940-1 | Present | Present | (2)-454 | KE-11143 | Present | |
| 1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N',N'-trimethyl- | 3855-32-1 | 223-362-3 | Present | Present | (3)-3284; (2)-3284 | KE-23515 | Present | May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right. |
| Polyoxypropylenediamine | 9046-10-0 | Polymer | Present | Present | (7)-2567 | KE-01457 | Present | HSR003702 |

SECTION 16. OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- ATE: Acute Toxicity Estimate
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- ECHA: European Chemicals Agency
- ECOTOX: U.S. EPA Ecotoxicology Database
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IBC: Intermediate Bulk Container
- IECSC: Inventory of Existing Chemical Substances

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IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
IUCRID: International Uniform Chemical Information Database
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
- 2. International Agency for Research on Cancer Monographs, searched 2017
- 3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2017(Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - 2017 version.
- 6. California Proposition 65 List - 2017 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2017.

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Other special considerations for handling



: Provide adequate information, instruction and training for operators.

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| <p><u>Prepared for:</u> Huntsman Building Solutions 3315 E. Division Street, Arlington, TX 76011 Tel: 817-640-4900 , 888-224-1533</p> |  |
| <p><u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p> |  |

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