



| SECTION 1: Identification  |   |
|--|---|
| 1.1. Product identifier  |   |
| Product form   | : Mixture   |
| Trade name   | : ProSeal (MD-C-200v3)  |
| Product code   | : F0505/F5518   |
| 1.2. Recommended use and restriction   | is on use   |
| Recommended uses and restrictions  | : No restrictions on use known.   |
| Recommended use  | : A component for the production of spray insulation foam, Professional use, Consumer use   |
| 1.3. Supplier  |   |
| Huntsman Building Solutions  |   |
| 3315 E. Division Street,   |   |
| Arlington, TX 76011  |   |
| Tel: 817-640-4900 , 888-224-153  |   |
| sdsinfo@huntsmanbuilds.com   |   |
| -  |   |
| 1.4. Emergency telephone number  |   |
| Emergency number   | : CARECHEM (866) 928-0789   |
| SECTION 2: Hazard identification   |   |
| 2.1. Classification of the substance or  | mixture   |
|  |   |
| Classification (GHS-CA)  |   |
| Skin corrosion/irritation, Category 2<br>Serious eye damage/eye irritation, Category 1<br>Specific target organ toxicity — Repeated expo | Causes skin irritation.<br>Causes serious eye damage.<br>sure, Category 2 May cause damage to organs through prolonged or repeated exposure.  |
| 2.2. GHS Label elements, including pre   | cautionary statements   |
| GHS-CA labelling   |   |
| Hazard pictograms (GHS-CA)   |   |
| Signal word (GHS-CA)   | : Danger  |
| Hazard statements (GHS-CA)   | : Causes skin irritation.   |
|  | Causes serious eye damage.<br>May cause damage to organs through prolonged or repeated exposure.  |
| Precautionary statements (GHS-CA)  | <ul> <li>Do not breathe mist, spray, vapours.</li> <li>Wash hands thoroughly after handling.</li> <li>Wear protective clothing, eye protection, face protection.</li> <li>IF ON SKIN: Wash with plenty of water.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing.</li> <li>Immediately call a POISON CENTER, a doctor.</li> <li>Get medical advice/attention if you feel unwell.</li> <li>If skin irritation occurs: Get medical advice/attention.</li> <li>Take off contaminated clothing and wash it before reuse.</li> <li>Dispose of contents/container to local, regional, and/or international regulations</li> </ul> |
| 2.3. Other hazards not contributing to   | the classification  |
| No additional information available  |   |
| 2.4. Unknown acute toxicity (GHS-CA)   |   |
| No data available  |   |
| SECTION 3: Composition/informati   | on on ingredients   |
| 3.1. Substances  |   |

3.1. Substances

Not applicable

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| Name   | Chemical name / Synonyms  | Product identifier     | %           | Classification (GHS-CA)  |
|--|---|------------------------|-------------|--|
| Diethylene glycol  | Bis(2-hydroxyethyl) ether / DEG /<br>Diglycol / Dihydroxydiethyl ether /<br>2,2'-Dihydroxyethyl ether / Ethanol,<br>2,2'-oxybis- / 2,2'-Oxybisethanol /<br>2,2'-Oxydiethanol / 2,2'-<br>Oxybis(ethanol) / DIETHYLENE<br>GLYCOL  | (CAS-No.) 111-46-6     | 4.02 - 7.42 | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373   |
| Tris(2-chloroisopropyl) phosphate  | Tris(2-chloroisopropyl) phosphate   | (CAS-No.) 1244733-77-4 | 6.97        | Acute Tox. 4 (Oral), H302  |
| 1,3-Propanediamine, N,N-bis[3-<br>(dimethylamino)propyl]-N',N'-<br>dimethyl- | N,N-Bis[3-(dimethylamino)propyl]-<br>N',N'-dimethylpropane-1,3-diamine /<br>1,3-Propanediamine, N1,N1-bis[3-<br>(dimethylamino)propyl]-N3,N3-<br>dimethyl- / Tris[3-<br>(dimethylamino)propyl]amine / N,N-<br>Bis(3-(dimethylamino)propyl)-N',N'-<br>dimethyl-1,3-propanediamine  | (CAS-No.) 33329-35-0   | 3           | Acute Tox. 4 (Dermal), H312<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318   |
| Cyclohexanamine, N-cyclohexyl-<br>N-methyl-                                  | N-Cyclohexyl-N-<br>methylcyclohexylamine /<br>Dicyclohexylamine, N-methyl- /<br>Cyclohexanamine, N-cyclohexyl-<br>Nmethyl- / N-<br>Methyldicyclohexylamine / N,N-<br>Dicyclohexylmethylamine / N-<br>Cyclohexyl-N-<br>methylcyclohexanamine   | (CAS-No.) 7560-83-0    | 3           | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318   |
| N-[2-(Dimethylamino)ethyl]-<br>N,N',N'-trimethyl-1,2-<br>ethanediamine       | Bis(2-<br>dimethylaminoethyl)(methyl)amine /<br>Diethylenetriamine, 1,1,4,7,7-<br>pentamethyl- / 1,2-Ethanediamine,<br>N-[2-(dimethylamino)ethyl]-N,N',N'-<br>trimethyl- / N,N,N',N'-Tetramethyl-<br>2,2'-(methylamino)bis(ethylamine) /<br>1,2-Ethanediamine, N1-[2-<br>(dimethylamino)ethyl]-N1,N2,N2-<br>trimethyl- / 1,2-Ethanediamine, N-(2-<br>(dimethylamino)ethyl]-N,N',N'-<br>trimethyl- /<br>Pentamethyldiethylenetriamine /<br>N,N,N',N',N''-<br>Pentamethyldiethylenetriamine /<br>Bis[2-<br>(dimethylamino)ethyl]methylamine /<br>1,2-Ethanediamine, N1-(2-<br>(dimethylamino)ethyl]methylamine /<br>1,2-Ethanediamine, N1-(2-<br>(dimethylamino)ethyl]-N1,N2,N2-<br>trimethyl- / 1,1,4,7,7-<br>Pentamethyldiethylenetriamine / N-<br>[2-(Dimethylamine)ethyl]-N,N',N''-<br>trimethyl-1,2-ethanediamine /<br>N,N,N',N',N''-<br>Pentamethyldiethylenetriamine / N-<br>(2-(Dimethylamino)ethyl)-N,N',N''-<br>trimethyl-1,2-ethanediamine | (CAS-No.) 3030-47-5    | 1           | Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>Skin Corr. 1B, H314 |
| Ethylene glycol  | 1,2-Dihydroxyethane / Ethane-1,2-<br>diol / 1,2-Ethanediol / Ethanediol /<br>Dowtherm 4000 / GLYCOL / Glycol /<br>Monoethylene glycol / Ethandiol   | (CAS-No.) 107-21-1     | 0.25        | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373   |

Full text of hazard classes and H-statements : see section 16

| SECTION 4: First-aid measures          |  |
|--|--|
| 4.1. Description of first aid measures |  |
| First-aid measures after inhalation    | : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Seek medical<br>attention if ill effect or irritation develops.   |
| First-aid measures after skin contact  | : Wash skin with plenty of water. Wash contaminated clothing before reuse. Seek medical<br>attention if ill effect or irritation develops.   |
| First-aid measures after eye contact   | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse eye with clean water for 20-30 minutes, retracting eyelids often. Get immediate medical advice/attention. |
| First-aid measures after ingestion     | <ul> <li>If accidentally swallowed obtain immediate medical attention. Do not induce vomiting. Never<br/>give anything by mouth to an unconscious person.</li> </ul>   |
| First-aid measures general             | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  |
| 4.2. Most important symptoms and eff   | ects (acute and delayed)   |
| Symptoms/effects                       | : May cause damage to organs through prolonged or repeated exposure.   |
| Symptoms/effects after inhalation      | : Overexposure may be irritating to the respiratory system.  |

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| Symptoms/effects after skin conta                            | act :              | Causes skin irritation.  |   |
|--|--------------------|--|---|
| Symptoms/effects after eye conta                             | ict :              | Causes serious eye damage.   |   |
| Symptoms/effects after ingestion                             | :                  | May cause burns or irritation of the lin                                       | ings of the mouth, throat, and gastrointestinal tract.  |
| 4.3. Immediate medical at                                    | tention and speci  | al treatment, if necessary   |   |
| Note to physician :  |                    | Treat symptomatically.   |   |
| SECTION 5: Fire-fighting                                     | measures           |  |   |
| 5.1. Suitable extinguishing                                  | g media            |  |   |
| Suitable extinguishing media                                 | :                  | Foam. Dry powder. Carbon dioxide. W  | Vater spray. Sand.  |
| 5.2. Unsuitable extinguish                                   | ning media         |  |   |
| Unsuitable extinguishing media                               | :                  | Do not use a heavy water stream.   |   |
| 5.3. Specific hazards arisi                                  | ng from the haza   | rdous product  |   |
| Fire hazard  |                    |  | e release of irritating gases and vapours. Toxic and  |
| Explosion hazard   | :                  | No direct explosion hazard.  |   |
| 5.4. Special protective equ                                  | uipment and prec   | autions for fire-fighters  |   |
| Firefighting instructions                                    |                    | •  | oosed containers. Exercise caution when fighting any er from entering the environment.  |
| Protective equipment for firefighte                          | ers :              |  | protective equipment, including respiratory protection.   |
| SECTION 6: Accidental r                                      | elease measu       | res  |   |
| 6.1. Personal precautions                                    | , protective equip | oment and emergency procedures   |   |
| General measures   | :                  | Stop leak if safe to do so.  |   |
| Personal Precautions, Protective<br>and Emergency Procedures | Equipment :        | Evacuate unnecessary personnel. We Ventilate area.                             | ear recommended personal protective equipment.  |
| Prevention Measures for Second                               | ary Accidents :    | Prevent entry to sewers and public wa waters.                                  | aters. Notify authorities if liquid enters sewers or public   |
| 6.2. Methods and material                                    |                    |  |   |
| Methods for cleaning up                                      | :                  | Soak up spills with inert solids, such a spillage. Store away from other mater | as clay or diatomaceous earth as soon as possible. Colle<br>ials.   |
| 6.3. Reference to other se                                   |                    |  |   |
| For further information refer to se                          | •                  | controls/personal protection"  |   |
| SECTION 7: Handling an                                       | d storage          |  |   |
| 7.1. Precautions for safe h                                  |                    |  |   |
| Precautions for safe handling                                | :                  | Provide good ventilation in process ar exposure. Avoid contact with skin and   | rea to prevent formation of vapour. Avoid all unnecessary<br>I eyes.  |
| Hygiene measures   | :                  | smoking and when leaving work. Alwa  | s with mild soap and water before eating, drinking or<br>ays wash hands after handling the product. Wash<br>landle in accordance with good industrial hygiene and |
| 7.2. Conditions for safe st                                  | orage, including   | any incompatibilities  |   |
| Storage conditions   | :                  | Keep only in the original container in a not in use.                           | a cool well ventilated place. Keep container closed when  |
| ncompatible materials  | :                  | Strong acids. Strong bases.  |   |
| SECTION 8: Exposure co                                       | ontrols/person     | al protection  |   |
| 8.1. Control parameters                                      |                    |  |   |
| Lapolla FL 2100 LE   |                    |  |   |
| USA - ACGIH  | ACGIH TWA (ppn     |  | 25 ppm  |
| USA - ACGIH  | ACGIH STEL (mg     |  | 10 mg/m <sup>3</sup>  |
| USA - ACGIH  | ACGIH STEL (ppr    | m)   | 50 ppm  |
| USA - ACGIH<br>USA - ACGIH                                   | Remark (ACGIH)     | 200  | URT irr; A4<br>ACGIH 2018   |
|  | Regulatory referen |  | AUGIT 2010  |

100 mg/m<sup>3</sup>

100 mg/m<sup>3</sup>

25 ppm

10 mg/m<sup>3</sup>

OEL STEL (mg/m<sup>3</sup>)

OEL TWA (mg/m<sup>3</sup>)

ACGIH TWA (ppm)

ACGIH STEL (mg/m<sup>3</sup>)

Saskatchewan

Saskatchewan

USA - ACGIH

USA - ACGIH

Ethylene glycol (107-21-1)

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| Ethylene glycol (107-21-1) |                                  |   |
|----------------------------|----------------------------------|---|
| USA - ACGIH                | ACGIH STEL (ppm)                 | 50 ppm  |
| USA - ACGIH                | Remark (ACGIH)                   | URT irr; A4   |
| USA - ACGIH                | Regulatory reference             | ACGIH 2018  |
| Canada (Quebec)            | PLAFOND (mg/m <sup>3</sup> )     | 127 mg/m <sup>3</sup>   |
| Canada (Quebec)            | PLAFOND (ppm)                    | 50 ppm  |
| Alberta                    | OEL Ceiling (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup>   |
| British Columbia           | OEL Ceiling (mg/m <sup>3</sup> ) | 100 mg/m³ (aerosol)   |
| British Columbia           | OEL Ceiling (ppm)                | 50 ppm (vapour)   |
| British Columbia           | OEL STEL (mg/m <sup>3</sup> )    | 20 mg/m³ (particulate)  |
| British Columbia           | OEL TWA (mg/m³)                  | 10 mg/m <sup>3</sup> (particulate)                                |
| Manitoba                   | OEL STEL (mg/m <sup>3</sup> )    | 10 mg/m <sup>3</sup> (inhalable particulate matter, aerosol only) |
| Manitoba                   | OEL STEL (ppm)                   | 50 ppm (vapor fraction)   |
| Manitoba                   | OEL TWA (ppm)                    | 25 ppm (vapor fraction)   |
| New Brunswick              | OEL Ceiling (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup> (aerosol)                                   |
| Newfoundland & Labrador    | OEL STEL (mg/m <sup>3</sup> )    | 10 mg/m <sup>3</sup> (inhalable particulate matter, aerosol only) |
| Newfoundland & Labrador    | OEL STEL (ppm)                   | 50 ppm (vapor fraction)   |
| Newfoundland & Labrador    | OEL TWA (ppm)                    | 25 ppm (vapor fraction)   |
| Nova Scotia                | OEL STEL (mg/m <sup>3</sup> )    | 10 mg/m <sup>3</sup> (inhalable particulate matter, aerosol only) |
| Nova Scotia                | OEL STEL (ppm)                   | 50 ppm (vapor fraction)   |
| Nova Scotia                | OEL TWA (ppm)                    | 25 ppm (vapor fraction)   |
| Nunavut                    | OEL Ceiling (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup> (aerosol)                                   |
| Northwest Territories      | OEL Ceiling (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup> (aerosol)                                   |
| Ontario                    | OEL Ceiling (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup> (aerosol only)                              |
| Prince Edward Island       | OEL STEL (mg/m <sup>3</sup> )    | 10 mg/m <sup>3</sup> (inhalable particulate matter, aerosol only) |
| Prince Edward Island       | OEL STEL (ppm)                   | 50 ppm (vapor fraction)   |
| Prince Edward Island       | OEL TWA (ppm)                    | 25 ppm (vapor fraction)   |
| Saskatchewan               | OEL Ceiling (mg/m³)              | 100 mg/m³ (aerosol)   |
| Saskatchewan               | OEL STEL (mg/m <sup>3</sup> )    | 100 mg/m³   |
| Saskatchewan               | OEL TWA (mg/m³)                  | 100 mg/m³   |
| Yukon                      | OEL STEL (mg/m <sup>3</sup> )    | 20 mg/m³ (particulate)  |
| Yukon                      | OEL STEL (ppm)                   | 10 ppm (particulate)  |
| Yukon                      | OEL TWA (mg/m <sup>3</sup> )     | 10 mg/m <sup>3</sup> (particulate)                                |
| Yukon                      | OEL TWA (ppm)                    | 100 ppm (vapour)  |

8.2.

Appropriate engineering controls

: Ensure adequate ventilation. Provide local exhaust or general room ventilation to minimize vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear impermeable gloves.

### Eye protection:

Chemical goggles or face shield

### Skin and body protection:

Long sleeved protective clothing

#### **Respiratory protection:**

Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

### Other information:

Do not eat, drink or smoke during use.

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# **PRO**SEAL<sup>™</sup> **SAFETY DATA SHEET**

### **SECTION 9: Physical and chemical properties**

| 9.1. Information on basic physical ar      | nd chemical properties |
|--|------------------------|
| Physical state                             | : Liquid               |
| Appearance                                 | : No data available    |
| Colour                                     | : No available data    |
| Odour                                      | : characteristic       |
| Odour threshold                            | : No data available    |
| рН   | : No data available    |
| Relative evaporation rate (butylacetate=1) | : No data available    |
| Relative evaporation rate (ether=1)        | : No data available    |
| Melting point                              | : No data available    |
| Freezing point                             | : No data available    |
| Boiling point                              | : No data available    |
| Flash point                                | : No data available    |
| Auto-ignition temperature                  | : No data available    |
| Decomposition temperature                  | : No data available    |
| Flammability (solid, gas)                  | : Not applicable       |
| Vapour pressure                            | : No data available    |
| Vapour pressure at 50 °C                   | : No data available    |
| Relative density                           | : No data available    |
| Solubility                                 | : No data available    |
| Log Pow                                    | : No data available    |
| Explosive limits                           | : No data available    |
|  |                        |

#### Other information 9.2.

No additional information available

| SECTION 10: Stability and reacti   | vity   |
|------------------------------------|--|
| 10.1. Reactivity                   |  |
| Reactivity                         | : No dangerous reactions known under normal conditions of use.   |
| Chemical stability                 | : Stable under normal conditions of use.   |
| Possibility of hazardous reactions | : No polymerization. No dangerous reactions known.   |
| Conditions to avoid                | : Direct sunlight. Extremely high or low temperatures.   |
| Incompatible materials             | : Strong acids. Strong bases.  |
| Hazardous decomposition products   | No hazardous decomposition products known at room temperature. Thermal decomposition<br>can lead to the release of irritating gases and vapours. Toxic and corrosive vapours may be<br>released. |

| SECTION 11: Toxicological information       |   |  |
|---|---|--|
| 11.1. Information on toxicological effects  |   |  |
| Acute toxicity (oral)                       | Not classified (Based on available data, the classification criteria are not met) |  |
| Acute toxicity (dermal)                     | Not classified (Based on available data, the classification criteria are not met) |  |
| Acute toxicity (inhalation)                 | Not classified (Based on available data, the classification criteria are not met) |  |
| 1,3-Propanediamine, N,N-bis[3-(dimethylamin | o)propyl]-N',N'-dimethyl- (33329-35-0)  |  |
| ATE CA (dermal)                             | 1100 mg/kg bodyweight   |  |
| Ethylene glycol (107-21-1)                  |   |  |
| LD50 dermal rat                             | > 3500 mg/kg  |  |
| LC50 inhalation rat (Vapours - mg/l/4h)     | > 2.5 (6 h)   |  |
| ATE CA (oral)                               | 500 mg/kg bodyweight  |  |
| Diethylene glycol (111-46-6)                |   |  |
| LD50 oral rat                               | 12565 mg/kg   |  |
| LD50 dermal rabbit                          | 11890 mg/kg   |  |
|   |   |  |

| LC50 inhalation rat (mg/l)   | > 4600 mg/m <sup>°</sup> (Exposure time: 4 h) |  |
|--|---|--|
| N-[2-(Dimethylamino)ethyl]-N,N',N'-trimethyl-1,2-ethanediamine (3030-47-5) |   |  |
| LD50 oral rat  | 1630 μl/kg                                    |  |
| ATE CA (dermal)  | 300 mg/kg bodyweight                          |  |
| ATE CA (gases)   | 700 ppmv/4h                                   |  |
| ATE CA (vapours)   | 3 mg/l/4h                                     |  |

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| N-[2-(Dimethylamino)ethyl]-N,N',N'-trimeth   |   |
|--|---|
| ATE CA (dust,mist)   | 0.5 mg/l/4h   |
| Cyclohexanamine, N-cyclohexyl-N-methyl   |   |
| LD50 oral rat  | 446 mg/kg   |
| Tris(2-chloroisopropyl) phosphate (124473  |   |
| ATE CA (oral)  | 500 mg/kg bodyweight  |
| kin corrosion/irritation   | : Causes skin irritation.   |
| serious eye damage/irritation  | : Causes serious eye damage.  |
| Respiratory or skin sensitization  | : Not classified (Based on available data, the classification criteria are not met)   |
| Serm cell mutagenicity   | : Not classified (Based on available data, the classification criteria are not met)   |
| Carcinogenicity  | : Not classified (Based on available data, the classification criteria are not met)   |
| Reproductive toxicity  | : Not classified (Based on available data, the classification criteria are not met)   |
| TOT-single exposure  | : Not classified (Based on available data, the classification criteria are not met)   |
| TOT-repeated exposure  | : May cause damage to organs through prolonged or repeated exposure.  |
| Ethylene glycol (107-21-1)   |   |
| STOT-repeated exposure   | May cause damage to organs through prolonged or repeated exposure.  |
| Diethylene glycol (111-46-6)   |   |
| STOT-repeated exposure   | May cause damage to organs through prolonged or repeated exposure.  |
| spiration hazard   | : Not classified (Based on available data, the classification criteria are not met)   |
| Symptoms/effects   | : May cause damage to organs through prolonged or repeated exposure.  |
| Symptoms/effects after inhalation  | : Overexposure may be irritating to the respiratory system.   |
| symptoms/effects after skin contact  | : Causes skin irritation.   |
| Symptoms/effects after eye contact   | : Causes serious eye damage.  |
| Symptoms/effects after ingestion   | : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.  |
| Other information  | : Likely routes of exposure: ingestion, inhalation, skin and eye.   |
|  |   |
| ECTION 42, Ecclesies linformation  |   |
| SECTION 12: Ecological information   | 211   |
| 2.1. Toxicity  |   |
|  | : This material has not been tested for environmental effects.  |
| 2.1. Toxicity<br>Scology - general   |   |
| 2.1. Toxicity<br>cology - general<br>Ethylene glycol (107-21-1)  | : This material has not been tested for environmental effects.  |
| 2.1.       Toxicity         icology - general       Ethylene glycol (107-21-1)         LC50 fish 1       LC50 fish 1   | : This material has not been tested for environmental effects.<br>72860 mg/l Pimephales promelas 96h  |
| 2.1.       Toxicity         icology - general         Ethylene glycol (107-21-1)         LC50 fish 1         EC50 Daphnia 1  | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> </ul>   |
| 2.1.       Toxicity         icology - general       Ethylene glycol (107-21-1)         LC50 fish 1       EC50 Daphnia 1         EC50 72h algae (1)       EC50 72h algae (1)  | : This material has not been tested for environmental effects.<br>72860 mg/l Pimephales promelas 96h  |
| 2.1. Toxicityicology - generalEthylene glycol (107-21-1)LC50 fish 1EC50 Daphnia 1EC50 72h algae (1)Diethylene glycol (111-46-6)  | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> </ul>  |
| 2.1.       Toxicity         icology - general         Ethylene glycol (107-21-1)         LC50 fish 1         EC50 Daphnia 1         EC50 72h algae (1)         Diethylene glycol (111-46-6)         LC50 fish 1  | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> <li>75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</li> </ul>  |
| 2.1.Toxicityicology - generalEthylene glycol (107-21-1)LC50 fish 1EC50 Daphnia 1EC50 72h algae (1)Diethylene glycol (111-46-6)LC50 fish 1EC50 Daphnia 1  | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> </ul>  |
| 2.1.       Toxicity         icology - general         Ethylene glycol (107-21-1)         LC50 fish 1         EC50 Daphnia 1         EC50 72h algae (1)         Diethylene glycol (111-46-6)         LC50 fish 1  | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> <li>75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</li> </ul>  |
| 2.1. Toxicity         icology - general         Ethylene glycol (107-21-1)         LC50 fish 1         EC50 Daphnia 1         EC50 72h algae (1)         Diethylene glycol (111-46-6)         LC50 fish 1         EC50 Daphnia 1         EC50 Daphnia 1         EC50 Daphnia 1         2.2. Persistence and degradability         Lapolla FL 2100 LE   | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> <li>75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</li> <li>84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</li> </ul>   |
| 2.1. Toxicity         icology - general         Ethylene glycol (107-21-1)         LC50 fish 1         EC50 Daphnia 1         EC50 72h algae (1)         Diethylene glycol (111-46-6)         LC50 fish 1         EC50 Daphnia 1         EC50 Daphnia 1         EC50 Daphnia 1         2.2. Persistence and degradability         Lapolla FL 2100 LE   | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> <li>75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</li> </ul>  |
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| 2.1. Toxicity         icology - general         Ethylene glycol (107-21-1)         LC50 fish 1         EC50 Daphnia 1         EC50 72h algae (1)         Diethylene glycol (111-46-6)         LC50 fish 1         EC50 Daphnia 1         2.2. Persistence and degradability         Lapolla FL 2100 LE         Persistence and degradability         Ethylene glycol (107-21-1)         Persistence and degradability         2.3. Bioaccumulative potential   | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> <li>75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</li> <li>84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</li> <li>Not established.</li> </ul>   |
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| <ul> <li>2.1. Toxicity</li> <li>coology - general</li> <li>Ethylene glycol (107-21-1)</li> <li>LC50 fish 1</li> <li>EC50 Daphnia 1</li> <li>EC50 72h algae (1)</li> <li>Diethylene glycol (111-46-6)</li> <li>LC50 fish 1</li> <li>EC50 Daphnia 1</li> <li>2.2. Persistence and degradability</li> <li>Lapolla FL 2100 LE</li> <li>Persistence and degradability</li> <li>Ethylene glycol (107-21-1)</li> <li>Persistence and degradability</li> <li>2.3. Bioaccumulative potential</li> <li>Lapolla FL 2100 LE</li> <li>Bioaccumulative potential</li> <li>Ethylene glycol (107-21-1)</li> </ul>  | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h         <ul> <li>100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> </ul> </li> <li>75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         <ul> <li>84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</li> </ul> </li> <li>Not established.</li> <li>Readily biodegradable.</li> <li>Not established.</li> </ul>  |
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| <ul> <li>2.1. Toxicity</li> <li>icology - general</li> <li>Ethylene glycol (107-21-1)</li> <li>LC50 fish 1</li> <li>EC50 Daphnia 1</li> <li>EC50 72h algae (1)</li> <li>Diethylene glycol (111-46-6)</li> <li>LC50 fish 1</li> <li>EC50 Daphnia 1</li> <li>2.2. Persistence and degradability</li> <li>Lapolla FL 2100 LE</li> <li>Persistence and degradability</li> <li>Ethylene glycol (107-21-1)</li> <li>Persistence and degradability</li> <li>2.3. Bioaccumulative potential</li> <li>Lapolla FL 2100 LE</li> <li>Bioaccumulative potential</li> <li>Ethylene glycol (107-21-1)</li> <li>Bioaccumulative potential</li> <li>Diethylene glycol (111-46-6)</li> <li>BCF fish 1</li> <li>Log Pow</li> </ul>   | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> <li>75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</li> <li>84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</li> <li>Not established.</li> <li>Readily biodegradable.</li> <li>Not established.</li> <li>Low bioaccumulation potential.</li> <li>100 - 180</li> </ul>  |
| 2.1. Toxicityicology - generalEthylene glycol (107-21-1)LC50 fish 1EC50 Daphnia 1EC50 72h algae (1)Diethylene glycol (111-46-6)LC50 fish 1EC50 Daphnia 12.2. Persistence and degradabilityLapolla FL 2100 LEPersistence and degradabilityEthylene glycol (107-21-1)Persistence and degradability2.3. Bioaccumulative potentialLapolla FL 2100 LEBioaccumulative potentialEthylene glycol (107-21-1)Bioaccumulative potentialDiethylene glycol (107-21-1)Bioaccumulative potentialDiethylene glycol (107-21-1)Bioaccumulative potentialDiethylene glycol (107-21-1)  | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> <li>75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</li> <li>84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</li> <li>Not established.</li> <li>Readily biodegradable.</li> <li>Not established.</li> <li>Low bioaccumulation potential.</li> <li>100 - 180         <ul> <li>-1.98 (at 25 °C)</li> <li></li></ul></li></ul> |
| <ul> <li>2.1. Toxicity</li> <li>icology - general</li> <li>Ethylene glycol (107-21-1)</li> <li>LC50 fish 1</li> <li>EC50 Daphnia 1</li> <li>EC50 72h algae (1)</li> <li>Diethylene glycol (111-46-6)</li> <li>LC50 fish 1</li> <li>EC50 Daphnia 1</li> <li>2.2. Persistence and degradability</li> <li>Lapolla FL 2100 LE</li> <li>Persistence and degradability</li> <li>Ethylene glycol (107-21-1)</li> <li>Persistence and degradability</li> <li>2.3. Bioaccumulative potential</li> <li>Lapolla FL 2100 LE</li> <li>Bioaccumulative potential</li> <li>Ethylene glycol (107-21-1)</li> <li>Bioaccumulative potential</li> <li>Diethylene glycol (111-46-6)</li> <li>BCF fish 1</li> <li>Log Pow</li> <li>2.4. Mobility in soil</li> </ul> | <ul> <li>This material has not been tested for environmental effects.</li> <li>72860 mg/l Pimephales promelas 96h</li> <li>&gt; 100 mg/l Daphnia Magna 48h</li> <li>6500 - 13000 mg/l Selenastrum capricornutum 96h</li> <li>75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</li> <li>84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</li> <li>Not established.</li> <li>Readily biodegradable.</li> <li>Not established.</li> <li>Low bioaccumulation potential.</li> <li>100 - 180</li> </ul>  |
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| 12.5. Other adverse effects                           |   |  |
|---|---|--|
| Ozone   | : Not classified (Based on available data, the classification criteria are not met) |  |
| Other information                                     | : Avoid release to the environment.   |  |
| SECTION 13: Disposal consideration                    | IS  |  |
| 13.1. Disposal methods                                |   |  |
| Product/Packaging disposal recommendations            | : Dispose in a safe manner in accordance with local/national regulations.           |  |
| Ecology - waste materials                             | : Avoid release to the environment.   |  |
| SECTION 14: Transport information                     |   |  |
|   |   |  |
| 14.1. Basic shipping description                      |   |  |
| In accordance with TDG                                |   |  |
| Transportation of Dangerous Goods                     |   |  |
| Not regulated for transport                           |   |  |
| 14.2. Transport information/DOT                       |   |  |
| Department of Transport                               |   |  |
| Not regulated for transport                           |   |  |
| 14.3. Air and sea transport                           |   |  |
| IMDG  |   |  |
| Not regulated for transport                           |   |  |
| ΙΑΤΑ  |   |  |
| Not regulated for transport                           |   |  |
| Not regulated for transport                           |   |  |
| <b>SECTION 15: Regulatory information</b>             |   |  |
| 15.1. National regulations                            |   |  |
| 1,3-Propanediamine, N,N-bis[3-(dimethylami            | no)propyl]-N',N'-dimethyl- (33329-35-0)   |  |
| Listed on the Canadian DSL (Domestic Substances List) |   |  |
| Ethylene glycol (107-21-1)                            |   |  |
| Listed on the Canadian DSL (Domestic Substar          | nces List)  |  |
| Diethylene glycol (111-46-6)                          |   |  |

Listed on the Canadian DSL (Domestic Substances List)

N-[2-(Dimethylamino)ethyl]-N,N',N'-trimethyl-1,2-ethanediamine (3030-47-5)

Listed on the Canadian DSL (Domestic Substances List)

Cyclohexanamine, N-cyclohexyl-N-methyl- (7560-83-0)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

### 1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethyl- (33329-35-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on Turkish inventory of chemical

### Ethylene glycol (107-21-1)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on Turkish inventory of chemical



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| Diethylene glycol (111-46-6)  |  |  |
|---|--|--|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals and Chemical Substances)<br>Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on INSQ (Mexican National Inventory of Chemical Substances)<br>Listed on Turkish inventory of chemical |  |  |
| N-[2-(Dimethylamino)ethyl]-N,N',N'-trimethyl-1,2-ethanediamine (3030-47-5)  |  |  |
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on Turkish inventory of chemical               |  |  |
| Cyclohexanamine, N-cyclohexyl-N-methyl- (7560-83-0)   |  |  |
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on the United States TSCA (Toxic Substances Control Act) inventory  |  |  |
| SECTION 16: Other information   |  |  |
| Date of issue : 14 September 2018   |  |  |

Sources of Key data

Other information

: None.

: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.

Full text of H-statements:

| text of h-statements. |  |
|-----------------------|--|
| H302                  | Harmful if swallowed.  |
| H311                  | Toxic in contact with skin.  |
| H312                  | Harmful in contact with skin.                                      |
| H314                  | Causes severe skin burns and eye damage.                           |
| H318                  | Causes serious eye damage.   |
| H331                  | Toxic if inhaled.  |
| H373                  | May cause damage to organs through prolonged or repeated exposure. |

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