

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 06/11/2021 Supersedes: 11/29/1999 Version: 1.0

| OFOT | ON 4. Identification | | | | |
|-------------------------------|---|-----------------------------------|--|--|--|
| | ON 1: Identification | | | | |
| 1.1. | Identification | | | | |
| Produc | | : Mixture | | | |
| Trade I | | | lene oxide) [MW 600,000] | | |
| Produc | | : 06106 | | | |
| Formul | la | : (CH2CH2 | 2O)x | | |
| 1.2. | Recommended use and restrictions of | | | | |
| Recom | imended use | : Use as la | boratory reagent, Manufac | ture of substances | |
| 1.3. | Supplier | | | | |
| Warring T +1 2 | | <u>1</u> | | | |
| 1.4. | Emergency telephone number | | | | |
| Emerge | ency number | : 24-hour e | emergency phone number | ChemTel 1-800-255-39 | 24 |
| SECTI | ON 2: Hazard(s) identification | | | | |
| 2.1. | Classification of the substance or mix | cture | | | |
| | classification | | | | |
| | s eye damage/eye irritation Category 2A | Ca | uses serious eye irritation | | |
| | | | | | |
| 2.2. | GHS Label elements, including precau | utionary stat | ements | | |
| GHS US | abeling | | | | |
| Hazaro | l pictograms (GHS US) | | \rangle | | |
| Signal | word (GHS US) | : Warning | | | |
| Hazard | statements (GHS US) | : Causes s | erious eye irritation | | |
| Precau | itionary statements (GHS US) | Wear pro IF IN EYE and easy | nds, forearms and face tho tective gloves/protective cl ES: Rinse cautiously with w to do. Continue rinsing. ation persists: Get medical | othing/eye protection/fa vater for several minute | ace protection. s. Remove contact lenses, if pres |
| 2.3. | Other hazards which do not result in a | classificatio | n | | |
| No addit | ional information available | | | | |
| 2.4. | Unknown acute toxicity (GHS US) | | | | |
| Not appl | icable | | | | |
| SECTI | ON 3: Composition/Information | on ingred | lients | | |
| | | | | | |
| | Substances | | | | |
| 3.1. | | | | | |
| <mark>3.1.</mark> Not appl | | | | | |
| 3.1. Not appl 3.2. | icable Mixtures | | Product identifier | % | GHS US classification |

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| Name | Product identifier | % | GHS US classification |
|----------------|---------------------|-------|---|
| Ammonia | (CAS-No.) 7664-41-7 | 0 – 5 | Flam. Gas 2, H221 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 |
| Ethylene oxide | (CAS-No.) 75-21-8 | 0 – 5 | Flam. Gas 1, H220 Press. Gas (Liq.), H280 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:gas), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 3, H402 |
| Ethylamine | (CAS-No.) 75-04-7 | 0-5 | Acute Tox. 4 (Inhalation:gas), H332 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 3, H402 |

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 | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Call a poison center/doctor/physician if you feel unwell. |
| 4.2. Most important symptoms and effect | ts (acute and delayed) |
| Symptoms/effects after eye contact | : Eye irritation. |
| 4.3. Immediate medical attention and sp | ecial treatment, if necessary |
| Treat symptomatically. | |
| SECTION 5: Fire-fighting measures | |
| 5.1. Suitable (and unsuitable) extinguish | ing media |
| Suitable extinguishing media | : Water spray. Dry powder. Foam. |
| 5.2. Specific hazards arising from the ch | emical |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
| 5.3. Special protective equipment and protecti | recautions for fire-fighters |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| SECTION 6: Accidental release meas | sures |
| 6.1. Personal precautions, protective eq | uipment and emergency procedures |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. |
| 6.1.2. For emergency responders | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| 6.2. Environmental precautions | |
| Avoid release to the environment. | |
| 6.3. Methods and material for containme | ent and cleaning up |
| Methods for cleaning up | : Mechanically recover the product. |

Poly(ethylene oxide) [MW 600,000] Safety Data Sheet

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| : Dispose of materials or solid residues at an authorized site. |
|---|
| |
| |
| |
| |
| |
| : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. |
| : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
| g any incompatibilities |
| : Store at room temp. Store in a well-ventilated place. Keep cool. |
| · · · · |
| onal protection |
| |
| |
| |
| |
| its |
| Ammonia |
| 25 ppm |
| 35 ppm |
| TLV® Basis: Eye dam; URT irr |
| ACGIH 2020 |
| ls |
| Ammonia |
| 35 mg/m ³ |
| 50 ppm |
| OSHA Annotated Table Z-1 |
| |
| 300 ppm ts |
| 18 mg/m ³ |
| 25 ppm |
| 27 mg/m ³ |
| 35 ppm |
| |
| its |
| Ethylene oxide |
| 1 ppm |
| TLV® Basis: Cancer; CNS impair. Notations: A2 (Suspected Human Carcinogen) |
| Suspected Human Carcinogen |
| ACGIH 2020 |
| |
| ETHYLENE OXIDE |
| 5000 pmol/g Globin Parameter: N-(2-hydroxyethyl)valine (HEV) - Medium: hemoglobin adducts - Sampling time: Not critical - Notations: Ns 5 μg/g Kreatinin Parameter: S-(2-hydroxyethyl)mercapturic acid (HEMA) - Medium: urine - Sampling time: End of shift - Notations: Pop, Ns |
| The value of HEV hemoglobin adducts applies to workers having representative Ethylene oxide exposure during the previous 120 days |
| ACGIH 2020 |
| |
| ls |
| ts 1 ppm |
| |

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| USA - IDLH - Occupational Exposure Limits | | |
|--|--|--|
| US IDLH (ppm) | 800 ppm | |
| USA - NIOSH - Occupational Exposure Limits | | |
| NIOSH REL (TWA) (mg/m ³) | 0.18 mg/m ³ (less than stated value) | |
| NIOSH REL TWA [ppm] | 0.1 ppm (less than stated value) | |
| NIOSH REL (ceiling) (mg/m ³) | 9 mg/m ³ | |
| NIOSH REL C [ppm] | 5 ppm | |
| Ethylamine (75-04-7) | | |
| USA - ACGIH - Occupational Exposure Limits | | |
| Local name | Ethylamine | |
| ACGIH TWA (ppm) | 5 ppm | |
| ACGIH STEL (ppm) | 15 ppm | |
| Remark (ACGIH) | TLV® Basis: URT irr. Notations: Skin | |
| ACGIH chemical category | Skin - potential significant contribution to overall exposure by the cutaneous route | |
| Regulatory reference | ACGIH 2020 | |
| USA - OSHA - Occupational Exposure Limits | | |
| Local name | Ethylamine | |
| OSHA PEL (TWA) (mg/m ³) | 18 mg/m³ | |
| OSHA PEL (TWA) (ppm) | 10 ppm | |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 | |
| USA - IDLH - Occupational Exposure Limits | | |
| US IDLH (ppm) | 600 ppm | |
| USA - NIOSH - Occupational Exposure Limits | | |
| NIOSH REL (TWA) (mg/m ³) | 18 mg/m ³ | |
| NIOSH REL TWA [ppm] | 10 ppm | |
| Polyethylene glycol (25322-68-3) | | |
| USA - AIHA - Occupational Exposure Limits | | |
| WEEL TWA (mg/m³) | 10 mg/m³ (MW>200-aerosol) | |

| 8.2. | Appropriate engineering controls | | |
|--------|----------------------------------|---|--|
| Appro | priate engineering controls | : | Ensure good ventilation of the work station. |
| Enviro | onmental exposure controls | : | Avoid release to the environment. |

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



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| SECTION 9: Physical and chemical pl 9.1. Information on basic physical and ch | |
|--|---|
| Physical state | : Solid |
| Appearance | : White powder. |
| Color | : Mixture contains one or more component(s) which have the following colour(s): |
| | Colorless |
| Odor | : There may be no odour warning properties, odour is subjective and inadequate to warn of |
| | overexposure. Mixture contains one or more component(s) which have the following odour: sharp intensely irritating ammonia-like |
| Odor threshold | : No data available |
| pН | : No data available |
| Melting point | : 143 |
| Freezing point | : Not applicable |
| Boiling point | : no data |
| Flash point | : no data |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapor pressure | : no data |
| Relative vapor density at 20°C | : no data |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : Not applicable |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| 9.2. Other information | |
| No additional information available | |

| SECTION 10: Stability and reactivity | | | | | |
|--|--|--|--|--|--|
| 10.1. | Reactivity | | | | |
| The pro | The product is non-reactive under normal conditions of use, storage and transport. | | | | |
| 10.2. | Chemical stability | | | | |
| | under normal conditions. | | | | |
| 10.3. | Possibility of hazardous reactions | | | | |
| | gerous reactions known under normal conditions of use. | | | | |
| 10.4. | Conditions to avoid | | | | |
| | nder recommended storage and handling conditions (see section 7). | | | | |
| 10.5. | Incompatible materials | | | | |
| | tional information available | | | | |
| 10.6. | Hazardous decomposition products | | | | |
| Under normal conditions of storage and use, hazardous decomposition products should not be produced. | | | | | |
| SECT | ION 11: Toxicological information | | | | |
| 11.1. | Information on toxicological effects | | | | |
| Acute | toxicity (oral) : Not classified | | | | |
| Acute | toxicity (dermal) : Not classified | | | | |
| Acute | toxicity (inhalation) : Not classified | | | | |

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| Poly(ethylene oxide) [MW 600,000] | |
|--|--|
| LD50 oral rat | >≥4 μg/kg g/Kg |
| Ammonia (7664-41-7) | |
| LD50 oral rat | 350 mg/kg |
| LC50 Inhalation - Rat [ppm] | 2000 ppm/4h |
| Ethylene oxide (75-21-8) | |
| LD50 oral rat | 72 mg/kg |
| LC50 Inhalation - Rat [ppm] | 800 ppm/4h |
| Ethylamine (75-04-7) | |
| LD50 oral rat | 400 mg/kg |
| LD50 dermal rabbit | 390 mg/kg |
| LC50 Inhalation - Rat [ppm] | 5540 ppm/1h |
| Polyethylene glycol (25322-68-3) | |
| LD50 oral rat | 22 g/kg |
| LD50 dermal rabbit | > 20 g/kg |
| kin corrosion/irritation | : Not classified |
| erious eye damage/irritation | : Causes serious eye irritation. |
| espiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| | : Not classified |
| | |
| Ethylene oxide (75-21-8) | |
| IARC group | 1 - Carcinogenic to humans |
| National Toxicity Program (NTP) Status | Known Human Carcinogens |
| In OSHA Hazard Communication Carcinogen list | Yes |
| In OSHA Specifically Regulated Carcinogen list | Yes |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| Ethylene evide (75.04.0) | |
| Ethylene oxide (75-21-8) STOT-single exposure | May aquee reepiratory initiation |
| STOT-single exposure | May cause respiratory irritation. |
| Ethylamine (75-04-7) | |
| STOT-single exposure | May cause respiratory irritation. |
| Polyethylene glycol (25322-68-3) | · |
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| /iscosity, kinematic | : No data available |
| • | |
| Symptoms/effects after eye contact | : Eye irritation. |
| ECTION 12: Ecological information | |
| .1. Toxicity | |
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| Ammonia (7664-41-7) | |
| LC50 fish 1 | 0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio) |
| ECEO Danhaia 1 | 25.4 mm// (Evenessing times 40.4. Creation Derbrie manne) |

25.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)

0.26 - 4.6 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

EC50 Daphnia 1

LC50 fish 2

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| Ethylene oxide (75-21-8) | | |
|--------------------------|---|--|
| LC50 fish 1 | 73 – 96 mg/l (Exposure time: 96 h - Species: Pimephales promelas) | |
| EC50 Daphnia 1 | 137 – 300 mg/l (Exposure time: 48 h - Species: Daphnia magna) | |
| Ethylamine (75-04-7) | | |
| LC50 fish 1 | ≈ 46 mg/l Test organisms (species): Leuciscus idus | |
| LC50 fish 2 | > 500 mg/l Test organisms (species): Leuciscus idus | |
| LOEC (chronic) | 6.1 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' | |
| NOEC (chronic) | 3.2 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' | |

12.2. Persistence and degradability

No additional information available

| 12.3. Bioaccumulative potential | | |
|---|------------------|--|
| Ammonia (7664-41-7) | | |
| Partition coefficient n-octanol/water (Log Pow) | -1.14 (at 25 °C) | |
| Ethylene oxide (75-21-8) | | |
| Partition coefficient n-octanol/water (Log Pow) -0.3 (at 25 °C) | | |
| Ethylamine (75-04-7) | | |
| Partition coefficient n-octanol/water (Log Pow) -0.27 | | |
| 12.4. Mobility in soil | | |

No additional information available

12.5. Other adverse effects

No additional information available

| SECTION 13: Disposal consideration | ations |
|------------------------------------|---|
| 13.1. Disposal methods | |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| SECTION 14: Transport informat | ion |
| Department of Transportation (DOT) | |
| In accordance with DOT | |
| Not applicable | |
| Transportation of Dangerous Goods | |
| Not applicable | |
| Transport by sea | |
| Not applicable | |
| Air transport | |
| Not applicable | |
| SECTION 45. Dogulatory inform | tion . |
| SECTION 15: Regulatory information | |
| 15.1. US Federal regulations | |

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| Ammonia (7664-41-7) | | | |
|--|---|--|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | | | |
| CERCLA RQ | 100 lb | | |
| Section 302 EPCRA Reportable Quantity (RQ) | 100 lb | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 lb | | |
| Ethylene oxide (75-21-8) | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS) | | | |
| CERCLA RQ | 10 lb | | |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 10 lb | | |
| Section 302 EPCRA Reportable Quantity (RQ) | 10 lb | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 lb | | |
| Ethylamine (75-04-7) | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | | |
| CERCLA RQ | 100 lb | | |
| Polyethylene glycol (25322-68-3) | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). | | |

15.2. International regulations

CANADA

| Ammonia (7664-41-7) | |
|---|-----|
| Listed on the Canadian DSL (Domestic Substances List) | |
| Toxic Substance (CEPA – Schedule I) | Yes |
| Ethylene oxide (75-21-8) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Toxic Substance (CEPA – Schedule I) | Yes |
| Ethylamine (75-04-7) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Polyethylene glycol (25322-68-3) | |
| Listed on the Canadian DSL (Domestic Substances List) | |

EU-Regulations

| Ammonia (7664-41-7) | |
|--|--|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Ethylene oxide (75-21-8) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Ethylamine (75-04-7) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Polyethylene glycol (25322-68-3) | |
| Listed on the EU NLP (No Longer Polymers) inventory | |

National regulations

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| Ammonia (7664-41-7) | |
|--|--|
| Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on CICR (Turkish Inventory and Control of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory) | |
| Ethylene oxide (75-21-8) | |
| Listed on IARC (International Agency for Research on Cancer) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Japanese Poilutant Release and Transfer Register Law (PRTR Law) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on CICR (Turkish Inventory and Control of Chemicals) Listed on CICR (Turkish Inventory and Control of Chemicals) | |
| Ethylamine (75-04-7) | |
| Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) | |
| Polyethylene glycol (25322-68-3) | |
| Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on CICR (Turkish Inventory and Control of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory) | |

| Ethylene oxide (75-21-8) | | | | | |
|--|---|---|---|-------------------------------------|--|
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | Yes | Yes | Yes | 2 μg/day | 20 µg/day |

| Component | State or local regulations |
|--------------------|--|
| Ammonia(7664-41-7) | U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S Pennsylvania - RTK (Right to Know) List |

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| Component | State or local regulations |
|-------------------------|--|
| Ethylene oxide(75-21-8) | U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances; U.S Pennsylvania - RTK (Right to Know) List |
| Ethylamine(75-04-7) | U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S Pennsylvania - RTK (Right to Know) List |

SECTION 16: Other information

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SDS US (GHS HazCom 2012)

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