



Outdoor Furniture Protectant

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

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SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Outdoor Furniture Protectant

Product Code: 590XX

Intended Use of the Product

Protector

Name, Address, and Telephone of the Responsible Party

Company

Star brite Inc.

4041 SW 47th Avenue

Fort Lauderdale, FL 33314

(954)587-6280

www.starbrite.com

Emergency Telephone Number

Emergency Number : US: (800) 424-9300; International: (703) 527-3887 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Eye Dam. 1 H318

Skin Sens. 1 H317

Full text of H-phrases: see section 16

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) :

Danger

Hazard Statements (GHS-US) :

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

Precautionary Statements (GHS-US) :

P261 - Avoid breathing vapors, mist, or spray.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing, and eye protection.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a poison center or doctor.

P321 - Specific treatment (see section 4 on this SDS).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. May be corrosive to respiratory tract.

Aquatic Acute 3 H402

Aquatic Chronic 3 H412

H402 - Harmful to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

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P273 - Avoid release to the environment.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Name | Product Identifier | % (w/w) | Classification (GHS-US) |
|---|----------------------|------------------|---|
| 2,6,8-Trimethyl-4-nonyl polyethylene glycol ether | (CAS No) 60828-78-6 | 3 - 7 5 - 10 | Eye Dam. 1, H318 Aquatic Chronic 3, H412 |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyloxy)disiloxanyl]propyl]-.omega.-hydroxy- | (CAS No) 67674-67-3 | 1 - 5 | Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 Aquatic Chronic 2, H411 |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- | (CAS No) 104810-47-1 | 0.1 - 1 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-, sodium salt | (CAS No) 55348-40-8 | 0.1 - 1 | Skin Irrit. 2, H315 Eye Dam. 1, H318 |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | (CAS No) 41556-26-7 | 0.1 - 1 | Flam. Liq. 4, H227 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | (CAS No) 104810-48-2 | 0.1 - 1 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Isopropyl alcohol | (CAS No) 67-63-0 | < 0.1 0.1 - 1 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| n-Amyl acetate | (CAS No) 628-63-7 | < 0.1 | Flam. Liq. 3, H226 |
| Petroleum distillates, hydrotreated light | (CAS No) 64742-47-8 | < 0.1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |

Full text of H-phrases: see section 16

* More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary, due to varying composition. The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

SECTION 4: FIRST AID MEASURES

Description of 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).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Call a POISON CENTER/doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Seek medical attention immediately if irritation develops or persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye damage. May cause an allergic skin reaction.

Inhalation: May cause respiratory irritation. May be corrosive to the respiratory tract.

Skin Contact: May cause an allergic skin reaction. May cause skin irritation.

Eye Contact: Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva. Can cause blindness.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Powder, alcohol-resistant foam, water spray, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition. Do not allow run-off from firefighting to enter drains or water sources.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides.

Other Information: Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapors.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all unnecessary exposure. Do not breathe vapor, mist or spray.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. If spilled directly onto the ground, remove sufficient soil to ensure material is fully recovered. Contact competent authorities after a spill.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Precautions for Safe Handling: Avoid all unnecessary exposure. Use appropriate personal protection equipment (PPE).

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

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Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Alkalis.

Specific End Use(s)

Protector

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

| Isopropyl alcohol (67-63-0) | | |
|------------------------------------|---------------------------------------|--|
| Mexico | OEL TWA (mg/m ³) | 980 mg/m ³ |
| Mexico | OEL TWA (ppm) | 400 ppm |
| Mexico | OEL STEL (mg/m ³) | 1225 mg/m ³ |
| Mexico | OEL STEL (ppm) | 500 ppm |
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 400 ppm |
| USA ACGIH | ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 980 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 400 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 980 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 400 ppm |
| USA NIOSH | NIOSH REL (STEL) (mg/m ³) | 1225 mg/m ³ |
| USA NIOSH | NIOSH REL (STEL) (ppm) | 500 ppm |
| USA IDLH | US IDLH (ppm) | 2000 ppm (10% LEL) |
| Alberta | OEL STEL (mg/m ³) | 984 mg/m ³ |
| Alberta | OEL STEL (ppm) | 400 ppm |
| Alberta | OEL TWA (mg/m ³) | 492 mg/m ³ |
| Alberta | OEL TWA (ppm) | 200 ppm |
| British Columbia | OEL STEL (ppm) | 400 ppm |
| British Columbia | OEL TWA (ppm) | 200 ppm |
| Manitoba | OEL STEL (ppm) | 400 ppm |
| Manitoba | OEL TWA (ppm) | 200 ppm |
| New Brunswick | OEL STEL (mg/m ³) | 1230 mg/m ³ |
| New Brunswick | OEL STEL (ppm) | 500 ppm |
| New Brunswick | OEL TWA (mg/m ³) | 983 mg/m ³ |
| New Brunswick | OEL TWA (ppm) | 400 ppm |
| Newfoundland & Labrador | OEL STEL (ppm) | 400 ppm |
| Newfoundland & Labrador | OEL TWA (ppm) | 200 ppm |
| Nova Scotia | OEL STEL (ppm) | 400 ppm |
| Nova Scotia | OEL TWA (ppm) | 200 ppm |
| Nunavut | OEL STEL (mg/m ³) | 1228 mg/m ³ |
| Nunavut | OEL STEL (ppm) | 500 ppm |
| Nunavut | OEL TWA (mg/m ³) | 983 mg/m ³ |
| Nunavut | OEL TWA (ppm) | 400 ppm |
| Northwest Territories | OEL STEL (mg/m ³) | 1228 mg/m ³ |
| Northwest Territories | OEL STEL (ppm) | 500 ppm |
| Northwest Territories | OEL TWA (mg/m ³) | 983 mg/m ³ |
| Northwest Territories | OEL TWA (ppm) | 400 ppm |
| Ontario | OEL STEL (ppm) | 400 ppm |

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| | | |
|------------------------------------|--------------------------------------|------------------------|
| Ontario | OEL TWA (ppm) | 200 ppm |
| Prince Edward Island | OEL STEL (ppm) | 400 ppm |
| Prince Edward Island | OEL TWA (ppm) | 200 ppm |
| Québec | VECD (mg/m ³) | 1230 mg/m ³ |
| Québec | VECD (ppm) | 500 ppm |
| Québec | VEMP (mg/m ³) | 985 mg/m ³ |
| Québec | VEMP (ppm) | 400 ppm |
| Saskatchewan | OEL STEL (ppm) | 400 ppm |
| Saskatchewan | OEL TWA (ppm) | 200 ppm |
| Yukon | OEL STEL (mg/m ³) | 1225 mg/m ³ |
| Yukon | OEL STEL (ppm) | 500 ppm |
| Yukon | OEL TWA (mg/m ³) | 980 mg/m ³ |
| Yukon | OEL TWA (ppm) | 400 ppm |
| n-Amyl acetate (628-63-7) | | |
| Mexico | OEL TWA (mg/m ³) | 530 mg/m ³ |
| Mexico | OEL TWA (ppm) | 100 ppm |
| Mexico | OEL STEL (mg/m ³) | 800 mg/m ³ |
| Mexico | OEL STEL (ppm) | 150 ppm |
| USA ACGIH | ACGIH TWA (ppm) | 50 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 100 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 525 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 525 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 100 ppm |
| USA IDLH | US IDLH (ppm) | 1000 ppm |
| Alberta | OEL STEL (mg/m ³) | 532 mg/m ³ |
| Alberta | OEL STEL (ppm) | 100 ppm |
| Alberta | OEL TWA (mg/m ³) | 266 mg/m ³ |
| Alberta | OEL TWA (ppm) | 50 ppm |
| British Columbia | OEL STEL (ppm) | 100 ppm |
| British Columbia | OEL TWA (ppm) | 50 ppm |
| Manitoba | OEL STEL (ppm) | 100 ppm |
| Manitoba | OEL TWA (ppm) | 50 ppm |
| New Brunswick | OEL TWA (mg/m ³) | 532 mg/m ³ |
| New Brunswick | OEL TWA (ppm) | 100 ppm |
| Newfoundland & Labrador | OEL STEL (ppm) | 100 ppm |
| Newfoundland & Labrador | OEL TWA (ppm) | 50 ppm |
| Nova Scotia | OEL STEL (ppm) | 100 ppm |
| Nova Scotia | OEL TWA (ppm) | 50 ppm |
| Nunavut | OEL STEL (mg/m ³) | 800 mg/m ³ |
| Nunavut | OEL STEL (ppm) | 150 ppm |
| Nunavut | OEL TWA (mg/m ³) | 530 mg/m ³ |
| Nunavut | OEL TWA (ppm) | 100 ppm |
| Northwest Territories | OEL STEL (mg/m ³) | 800 mg/m ³ |
| Northwest Territories | OEL STEL (ppm) | 150 ppm |
| Northwest Territories | OEL TWA (mg/m ³) | 530 mg/m ³ |
| Northwest Territories | OEL TWA (ppm) | 100 ppm |
| Ontario | OEL STEL (ppm) | 100 ppm |
| Ontario | OEL TWA (ppm) | 50 ppm |
| Prince Edward Island | OEL STEL (ppm) | 100 ppm |
| Prince Edward Island | OEL TWA (ppm) | 50 ppm |

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| | | |
|---|-------------------------------|--|
| Québec | VECD (mg/m ³) | 532 mg/m ³ |
| Québec | VECD (ppm) | 100 ppm |
| Québec | VEMP (mg/m ³) | 266 mg/m ³ |
| Québec | VEMP (ppm) | 50 ppm |
| Saskatchewan | OEL STEL (ppm) | 100 ppm |
| Saskatchewan | OEL TWA (ppm) | 50 ppm |
| Yukon | OEL STEL (mg/m ³) | 780 mg/m ³ |
| Yukon | OEL STEL (ppm) | 150 ppm |
| Yukon | OEL TWA (mg/m ³) | 525 mg/m ³ |
| Yukon | OEL TWA (ppm) | 100 ppm |
| Petroleum distillates, hydrotreated light (64742-47-8) | | |
| British Columbia | OEL TWA (mg/m ³) | 200 mg/m ³ (application restricted to conditions in which there are negligible aerosol exposures) |

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Consumer Exposure Controls: Do not eat, drink or smoke during use

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| | |
|---------------------------------|--------------------|
| Physical State | : Liquid |
| Appearance | : White Liquid |
| Odor | : Characteristic |
| Odor Threshold | : Not available |
| pH | : 6.5 |
| Evaporation Rate | : Not available |
| Melting Point | : Not available |
| Freezing Point | : Not available |
| Boiling Point | : Not available |
| Flash Point | : Not available |
| Auto-ignition Temperature | : Not available |
| Decomposition Temperature | : Not available |
| Flammability (solid, gas) | : Not available |
| Lower Flammable Limit | : Not available |
| Upper Flammable Limit | : Not available |
| Vapor Pressure | : Not available |
| Relative Vapor Density at 20 °C | : Not available |
| Relative Density | : Not available |
| Specific Gravity | : 1 |
| Solubility | : Soluble in water |

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| | |
|--|---|
| Partition Coefficient: N-Octanol/Water | : Not available |
| Viscosity | : Not available |
| Explosion Data – Sensitivity to Mechanical Impact | : Not expected to present an explosion hazard due to mechanical impact. |
| Explosion Data – Sensitivity to Static Discharge | : Not expected to present an explosion hazard due to static discharge. |

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Sources of ignition. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Alkalis.

Hazardous Decomposition Products: Thermal decomposition generates : Carbon oxides (CO, CO₂). Silicon oxides. Nitrogen oxides. Hydrocarbons. Formaldehyde. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

ID50 and IC50 Data: Not available

Skin Corrosion/Irritation: Not classified

pH: 6.5

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: 6.5

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation. May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. May cause skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva. Can cause blindness.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

ID50 and IC50 Data:

| 2,6,8-Trimethyl-4-nonyl polyethylene glycol ether (60828-78-6) | |
|---|-----------------------------------|
| ID50 Oral Rat | 5650 mg/kg |
| ID50 Dermal Rabbit | 4780 µl/kg |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-.omega.-hydroxy- (67674-67-3) | |
| ATE US (dust, mist) | 1.50 mg/l/4h |
| Isopropyl alcohol (67-63-0) | |
| ID50 Oral Rat | 4710 mg/kg |
| ID50 Dermal Rabbit | 4059 mg/kg |
| IC50 Inhalation Rat | 72.6 mg/l/4h (Exposure time: 4 h) |
| ATE US (vapors) | 72.50 mg/l/4h |
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| ID50 Oral Rat | > 5000 mg/kg |
| ID50 Dermal Rabbit | > 2000 mg/kg |

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| | |
|---|---------------|
| IC50 Inhalation Rat | > 5.2 mg/l/4h |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7) | |
| ID50 Oral Rat | 2615 mg/kg |
| Isopropyl alcohol (67-63-0) | |
| IARC Group | 3 |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

| | |
|---|---|
| Isopropyl alcohol (67-63-0) | |
| IC50 Fish 1 | 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Other Aquatic Organisms 1 | 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus) |
| IC 50 Fish 2 | 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Other Aquatic Organisms 2 | 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus) |
| n-Amyl acetate (628-63-7) | |
| IC50 Fish 1 | 650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 1 | 53 mg/l |
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| IC50 Fish 1 | 45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| IC 50 Fish 2 | 2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7) | |
| IC50 Fish 1 | 0.97 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |

Persistence and Degradability

| | |
|-------------------------------------|------------------|
| Outdoor Furniture Protectant | |
| Persistence and Degradability | Not established. |

Bioaccumulative Potential

| | |
|-------------------------------------|------------------|
| Outdoor Furniture Protectant | |
| Bioaccumulative Potential | Not established. |

| | |
|------------------------------------|-----------------|
| Isopropyl alcohol (67-63-0) | |
| Log Pow | 0.05 (at 25 °C) |

| | |
|---|----------|
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| BCF Fish 1 | 61 - 159 |

| | |
|---|-----------------|
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7) | |
| Log Pow | 0.37 (at 25 °C) |

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG/IMDG

UN Number Not regulated for transport

UN Proper Shipping Name Not regulated for transport

Transport Hazard Class(es) Not regulated for transport

Additional Information Not available

Transport by sea Not regulated for transport

Marine Pollutant No

Air transport Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

| | |
|--|--|
| Outdoor Furniture Protectant | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| 2,6,8-Trimethyl-4-nonyl polyethylene glycol ether (60828-78-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyloxy)disiloxanyl]propyl]-.omega.-hydroxy- (67674-67-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-, sodium salt (55348-40-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Isopropyl alcohol (67-63-0) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Listed on United States SARA Section 313 | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| SARA Section 313 - Emission Reporting | 1.0 % (only if manufactured by the strong acid process, no supplier notification) |
| n-Amyl acetate (628-63-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- (104810-47-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- (104810-48-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| US State Regulations | |
| 2,6,8-Trimethyl-4-nonyl polyethylene glycol ether (60828-78-6) | |
| U.S. - Texas - Effects Screening Levels - Long Term | |
| U.S. - Texas - Effects Screening Levels - Short Term | |
| Isopropyl alcohol (67-63-0) | |
| U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute | |
| U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic | |

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U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Connecticut - Volatile Substances
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - TWAs
RTK - U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Occupational Exposure Limits - STELs
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - STELs
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - Oregon - Permissible Exposure Limits - TWAs
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour
U.S. - Tennessee - Occupational Exposure Limits - STELs
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - City of Austin - Aerosol Paint and Glue Restrictions
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - STELs
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs

n-Amyl acetate (628-63-7)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - TWAs
U.S. - Louisiana - Reportable Quantity List for Pollutants
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
RTK - U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Michigan - Polluting Materials List
U.S. - Minnesota - Hazardous Substance List

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U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - Oregon - Permissible Exposure Limits - TWAs
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - City of Austin - Aerosol Paint and Glue Restrictions
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

Petroleum distillates, hydrotreated light (64742-47-8)

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)

U.S. - Maine - Chemicals of High Concern
U.S. - Minnesota - Chemicals of High Concern
U.S. - Minnesota - Chemicals of High Concern - Persistent Bioaccumulative Toxins
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

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WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects



2,6,8-Trimethyl-4-nonyl polyethylene glycol ether (60828-78-6)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class E - Corrosive Material

Poly(oxy-1,2-ethanediyl), .alpha.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyloxy]disiloxanyl]propyl]-.omega.-hydroxy- (67674-67-3)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
Class E - Corrosive Material

Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-, sodium salt (55348-40-8)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class E - Corrosive Material
Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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| | |
|--|--|
| Isopropyl alcohol (67-63-0) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Listed on the Canadian IDL (Ingredient Disclosure List) | |
| IDL Concentration 1 % | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
| n-Amyl acetate (628-63-7) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Listed on the Canadian IDL (Ingredient Disclosure List) | |
| IDL Concentration 1 % | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid |
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- (104810-47-1) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- (104810-48-2) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

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

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 07/31/2015
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|-------------------------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhalation) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhalation) Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |

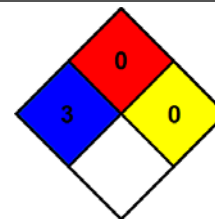
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| | |
|---------------|---|
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitization Category 1 |
| Skin Sens. 1B | Skin sensitization Category 1B |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H311 | Toxic in contact with skin |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

- NFPA Health Hazard** : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
- NFPA Fire Hazard** : 0 - Materials that will not burn.
- NFPA Reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS