



Tower Guard Aluminum Protectant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 08/14/2014

Date of issue: 08/14/2014

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Name: Tower Guard Aluminum Protectant

Product Code: 809XX

Intended Use of the Product

Cleaner

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Eye Dam. 1 H318

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)

:



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H318 - Causes serious eye damage

Precautionary Statements (GHS-US)

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

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/physician.

P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Aquatic Chronic 3

H412 - Harmful to aquatic life with long lasting effects

P273 - Avoid release to the environment

Unknown Acute Toxicity (GHS-US)

8 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

8 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

8 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Name | Product identifier | % (w/w) | Classification (GHS-US) |
|---|---------------------|---------|---|
| Siloxanes and Silicones, di-Me | (CAS No) 63148-62-9 | 3 - 8 | Eye Irrit. 2A, H319 |
| 2,6,8-Trimethyl-4-nonyl polyethylene glycol ether | (CAS No) 60828-78-6 | 2 - 6 | Eye Dam. 1, H318 Aquatic Chronic 3, H412 |

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| | | | |
|---|---------------------|-----------|--|
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-.omega.-hydroxy- | (CAS No) 67674-67-3 | 1.4 - 2.6 | Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 Aquatic Chronic 2, H411 |
| Poly(oxy-1,2-ethanediyl), .alpha.-2-propenyl-.omega.-hydroxy- | (CAS No) 27274-31-3 | 0.2 - 1 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 |

Full text of H-phrases: see section 16

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 if possible).

Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

Skin Contact: Remove contaminated clothing. Rinse affected area with water for at least 5 minutes. Obtain medical attention 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. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye damage.

Inhalation: None expected under normal conditions of use.

Skin Contact: May cause mild skin irritation.

Eye Contact: Causes serious eye damage.

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

Chronic Symptoms: Repeated or prolonged skin contact may cause dermatitis and defatting.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire. Application of water stream to hot product may cause frothing and increase fire intensity.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: None known.

Advice for Firefighters

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

Firefighting Instructions: Do not allow run-off from fire fighting to enter drains or water courses.

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

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

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: Do not get in eyes, on skin, or on clothing. Avoid breathing (vapor, mist, 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: Ventilate area. Stop leak if safe to do so.

Environmental Precautions

Prevent entry to sewers and public waters.

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Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

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

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.

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.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Specific End Use(s)

Cleaner.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not applicable

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 clothing. Safety glasses. Gloves.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| | |
|--|---------------------|
| Physical State | : Liquid |
| Appearance | : White |
| Odor | : Pleasant |
| Odor Threshold | : Not available |
| pH | : 6.5 |
| Relative Evaporation Rate (butylacetate=1) | : Not available |
| Melting/Freezing Point | : Not available |
| Boiling Point | : 100 °C (212 °F) |
| Flash Point | : > 100 °C (212 °F) |
| Auto-ignition Temperature | : Not available |
| Decomposition Temperature | : Not available |
| Flammability (solid, gas) | : Not available |
| Upper and Lower Flammable Limits | : Not available |
| Vapor Pressure | : Not available |
| Relative Vapor Density at 20 °C | : Not available |

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| | |
|--|---|
| Relative Density/Specific Gravity | : 1.01 (water = 1) at 20 °C (68 °F) |
| Solubility | : Soluble in water. |
| 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: | None known. |
| Chemical Stability: | Stable under recommended handling and storage conditions (see section 7). |
| Possibility of Hazardous Reactions: | Hazardous polymerization will not occur. |
| Conditions to Avoid: | Direct sunlight. Extremely high or low temperatures. |
| Incompatible Materials: | Strong acids, strong bases, strong oxidizers. |
| Hazardous Decomposition Products: | Carbon oxides (CO, CO ₂). Silicon oxides. |

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

| | |
|--|--|
| Acute Toxicity: | Not classified |
| LD50 and LC50 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: | Not classified |
| 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: | None expected under normal conditions of use. |
| Symptoms/Injuries After Skin Contact: | May cause mild skin irritation. |
| Symptoms/Injuries After Eye Contact: | Causes serious eye damage. |
| Symptoms/Injuries After Ingestion: | Ingestion is likely to be harmful or have adverse effects. |
| Chronic Symptoms: | Repeated or prolonged skin contact may cause dermatitis and defatting. |

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| | |
|---|--------------|
| 2,6,8-Trimethyl-4-nonyl polyethylene glycol ether (60828-78-6) | |
| LD50 Dermal Rabbit | 4780 µl/kg |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[1,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-.omega.-hydroxy- (67674-67-3) | |
| ATE US (dust, mist) | 1.50 mg/l/4h |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

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

Persistence and Degradability

| | |
|--|------------------|
| Siloxanes and Silicones, di-Me (63148-62-9) | |
| Persistence and Degradability | Not established. |

Bioaccumulative Potential

| | |
|--|------------------|
| Siloxanes and Silicones, di-Me (63148-62-9) | |
| Bioaccumulative Potential | Not established. |

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

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SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

- 14.1 In Accordance with DOT** Not regulated for transport
14.2 In Accordance with IMDG Not regulated for transport
14.3 In Accordance with IATA Not regulated for transport
14.4 In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION


US Federal Regulations

| | |
|---|---------------------------------|
| Tower Guard Aluminum Protectant | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| Siloxanes and Silicones, di-Me (63148-62-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| 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-[(trimethylsilyl)oxy]disiloxanyl]propyl]-.omega.-hydroxy- (67674-67-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Poly(oxy-1,2-ethanediyl), .alpha.-2-propenyl-.omega.-hydroxy- (27274-31-3) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

US State Regulations

| | |
|---|--|
| Siloxanes and Silicones, di-Me (63148-62-9) | |
| U.S. - Texas - Effects Screening Levels - Long Term | |
| U.S. - Texas - Effects Screening Levels - Short Term | |
| 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 | |

Canadian Regulations

| | |
|---|--|
| Tower Guard Aluminum Protectant | |
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |
|  | |
| Siloxanes and Silicones, di-Me (63148-62-9) | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
| 2,6,8-Trimethyl-4-nonyl polyethylene glycol ether (60828-78-6) | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-.omega.-hydroxy- (67674-67-3) | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |
| Poly(oxy-1,2-ethanediyl), .alpha.-2-propenyl-.omega.-hydroxy- (27274-31-3) | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |

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** : 08/14/2014
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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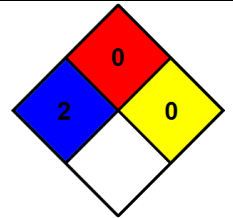
GHS Full Text Phrases:

| | |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

NFPA Health Hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is 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.

North America GHS US 2012 & WHMIS