

# SAFETY DATA SHEET

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## SECTION 1. Identification of the Product and of the Company

**Product Name:** Trailer Brite  
**UN/ID Number:** 1790  
**Recommended Use:** Aluminum Cleaning  
**Restrictions on Use:** Use only as directed on label  
**Date of Issue:** 5/14/15

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### Emergency Telephone Numbers

PERS: 800-633-8253

## SECTION 2. Hazards Identification

### EMERGENCY OVERVIEW

\* Hazard Determination System (HDS): Health, Flammability, Reactivity



### Hazard Category /GHS - Classification

**Signal Word:** DANGER!

|   |             |
|---|-------------|
| Acute Toxicity- Dermal  | Category 1  |
| Acute Toxicity- Oral  | Category 1  |
| Acute Toxicity- Inhalation                                      | Category 1  |
| Skin Corrosion  | Category 1C |
| Serious Eye Damage  | Category 1  |
| Carcinogenicity   | Category 1A |
| Specific Target Organ Toxicity (Single Exposure)                | Category 1  |
| Specific Target Organ Toxicity (Repeated or Prolonged Exposure) | Category 1  |
| Corrosive To Metals   | Category 1  |

### Hazard Pictograms:



### Hazard Statements:

- |   |   |
|---|---|
| Causes serious eye damage<br>Toxic if swallowed<br>Toxic if inhaled<br>Causes severe skin burns and eye damage<br>Causes damage to organs(through prolonged or repeated exposure) | Causes damage to organs<br>May be corrosive to metals |
|---|---|

### Precautionary Statements - Prevention:

|   |  |
|---|--|
| Do not get in eyes, on skin, or on clothing           | Avoid breathing fumes, vapors, mist or spray |
| Wash thoroughly after handling                        | Use only with adequate ventilation           |
| Do not eat, drink or smoke when using this product    | Follow instructions for use                  |
| Wear protective clothes, clothing, and eye protection | Keep in original container                   |
| Do not handle until all precautions are in use        |  |

**Precautionary Statements - Response:**

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Gently wash with plenty of soap and water. Immediately remove contaminated clothing. seek medical attention if irritation persists.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

IF INHALED: Remove victim to fresh air. If trouble breathing persists seek medical attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: seek medical attention.

**Precautionary Statements - Storage:** Keep out of reach of children in a safe location. Keep container closed.

**Precautionary Statements - Disposal:** Dispose of contents and container according to state/local/ federal disposal regulations.

**Hazards not otherwise classified (HNOC):** This product can cause severe burns which may not be immediately visible or painful. May cause hypocalcemia (depletion of calcium in the body) which can be fatal. Special medical treatment is required.

### SECTION 3. Composition/Information on Ingredients

| NAME OF INGREDIENT               | CAS NUMBER | % BY WEIGHT |
|----------------------------------|------------|-------------|
| Hydrofluoric Acid                | 6834-92-0  | 9%          |
| Ethylene Glycol Monobutyl Ether  | 111-76     | 1%          |
| Sodium (c14-16) olefin sulfonate | 68439-57-6 | 1%          |

### SECTION 4. First Aid Measures

**First aid measures for different routes of exposure**

**Eye Contact:** Immediate response is required. Rinse with plenty of water and seek medical attention.

**Skin Contact:** Immediate response is required. Immediately wash affected area with plenty of water and remove all contaminated clothing. Immerse the burned area in a .13% iced Benzalkonium Chloride , alternately apply a 2.5% topical calcium gluconate gel to the area. Seek medical attention.

**Inhalation:** Move to fresh air and call a physician. Physician may treat victim with oxygen nebulizer and calcium gluconate 2.5% in saline.

**Ingestion:** If swallowed immediate response is required. Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink several glasses of water or milk. If possible give several ounces of any antacid containing calcium.

**Most important symptoms/effects, acute and delayed:** The effects of hydrofluoric acid may not occur immediately upon contact or exposure.

**Notes to Physicians:** Treat symptomatically following guidelines for hydrofluoric acid listed above.

### SECTION 5. Fire Fighting Measures

**Suitable extinguishing media:** Dry chemical, CO<sub>2</sub>, alcohol-resistant foam.

**Unsuitable Extinguishing media:** Do not use water spray.

**Special Hazard:** During fire hazardous gasses may form.

**Special protective equipment for fire-fighters:** As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Specific hazards arising from the chemical:** Thermal decomposition may lead to the release of toxic vapors which are not to be breathed. This product causes skin, eye and mucous membrane burns.

### SECTION 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Use proper protective equipment. Avoid contact with skin, eyes, clothing.

**Advice for emergency responders:** Use personal protective equipment as required.

#### Methods and materials for containment and cleaning up

**Methods for containment:** Absorb with earth, sand or other non combustible material and transfer to containers for later disposal.

**Methods for cleaning up:** Contain spillage, and then collect with noncombustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### SECTION 7. Handling and Storage

#### Precautions for safe handling

**Advice on safe handling:** Use personal protective equipment as required. Keep container closed when not in use. Ensure all labels remain in good condition and adhered to the container. Keep out of reach of children

#### Conditions for safe storage, including incompatibilities

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well ventilated place.

**Incompatible products:** Oxidizing agents, strong acids.

### SECTION 8. Exposure Control / Personal Protection

#### Exposure Guidelines

| Chemical  | ACGIH TLV             | OSHA PEL   | NIOSH IDLH   |
|---|-----------------------|--|--|
| Hydrofluoric Acid<br>Cas. 6834-92-0                 | 2.5 mg/m <sup>3</sup> | 2 ppm  | 5mg/m <sup>3</sup> 6ppm                                |
| Ethylene Glycol Monobutyl Ether<br>Cas. 111-76      | TWA:20                | TWA:50<br>TWA: 240 mg/m <sup>3</sup><br>(Vacated) TWA:25 ppm<br>(Vacated) TWA:120 mg/m <sup>3</sup><br>(vacated) <sup>S*</sup> | IDHL:700 ppm<br>TWA 5 ppm<br>TWA: 24 mg/m <sup>3</sup> |
| Sodium (c14-16) olefin sulfonate<br>Cas. 68439-57-6 | No Exposure Limits    | No Exposure Limits   | No Exposure Limits                                     |

**Appropriate engineering controls:** Ensure adequate ventilation. Eye wash station and shower.

#### Personal Protective Equipment

**Eye protection:** Use appropriate eye protection goggles or face shield when handling material.

**Hand protection:** Chemical protective gloves required

**Skin protection:** Chemical resistant gloves. Avoid contact with skin.

**Respiratory Protection:** No special protective equipment required with adequate ventilation.

## SECTION 9. Physical and Chemical Properties

### Appearance

**Physical state:** Liquid

**Form:** Liquid

**Color:** clear

**Odor:** Strong acid

**Odor threshold:** Not Available

**PH:** 0-1 10% aqueous solution

**Melting point/freeze point:** No information available

**Flash Point:** Not applicable

**Evaporation rate:** No information available

**Flammability (solid, gas):** Not available

### Upper/lower flammability or explosive limits

**Flammability limit - lower %:** Not available

**Flammability limit - Upper %:** Not applicable

**Explosive limit- lower %:** Not available

**Explosive limit- upper %:** Not available

**Vapor pressure:** Not determined or unknown

**Relative density:** Not available

**Water solubility:** No information available

**Auto ignition temperature:** Not available

**Decomposition temperature:** Not available

**Specific gravity:** 1.04

## SECTION 10. Stability and Reactivity

**Reactivity:** The product is stable and non reactive under normal conditions of use, storage and transport.

**Chemical stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** Contact with incompatible materials

**Conditions to avoid:** Contact with incompatible materials.

**Incompatible materials:** Alkalis, carbonates, glass and silicate containing materials, oxidizing agents, sulfides.

**Hazardous decomposition products:** fire can lead to the release of toxic gases.

## SECTION 11. Toxicological information

| Chemical                         | LD 50 Oral      | LD 50 Dermal   | LC Inhalation                          |
|----------------------------------|-----------------|----------------|--|
| Hydrofluoric Acid                | Not determined  | Not determined | 1278 ppm (rat) 1 hr.                   |
| Ethylene Glycol Monobutyl Ether  | 470 mg/kg (rat) | 2270 (rat)     | 2.21 mg/l (rat) 4h<br>450 ppm (rat) 4h |
| Sodium (c14-16) olefin sulfonate | 1300-2400 mg/kg | >2000 mg/kg    | Not determined                         |

**Ingestion:** Harmful if swallowed. Corrosive to esophagus, mucous membrane and stomach.

**Inhalation:** Respiratory irritant.

**Skin contact:** Causes burns, redness, irritation and itching which may not be immediate.

Hydrofluoric acid may cause internal tissue damage and hypocalcemia when it penetrates the skin.

**Eye contact:** Direct contact to eyes causes serious eye damage, redness, watering and blurry vision.

**Information on Physical, Chemical and Toxicological Effects**

**Symptoms:** Please see section 4 of this SDS for symptoms

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

**Carcinogenicity** The materials in this product are not known to be carcinogenic  
A3 Group 3

| <u>Chemical Name</u>            | <u>ACGIH</u> | <u>IARC</u> | <u>NTP</u> | <u>OSHA</u> |
|---------------------------------|--------------|-------------|------------|-------------|
| Ethylene Glycol Monobutyl Ether |              |             |            | X           |

**ACGIH ( American Conference of Governmental Industrial Hygienists)**

Ether Glycol Monobutyl EB - A3 (Animal carcinogen)

**IARC (International Agency for Research on Cancer)**

Ether Glycol Monobutyl EB - A3 "not classified as a human carcinogen"

**OSHA Occupational Safety and Health Administration of the US Department of Labor**

No

**NTP (National Toxicology Program)**

No

**STOT - Single Exposure** May cause damage to organs

**STOT - Repeated Exposure** Causes damage to organs through prolonged or repeated exposure

**Numerical Measures of Toxicity** Not Determined

**SECTION 12. Ecological Information**

**Eco toxicity**

| <b>Chemical</b>                  | <b>Toxicity to Fish</b>      | <b>Toxicity to Algae</b> | <b>Toxicity to Invertebrates</b> |
|----------------------------------|------------------------------|--------------------------|----------------------------------|
| Hydrofluoric Acid                | 60 mg/l freshwater fish      | No data available        | 270 mg/l (48 h: Daphnia)         |
| Ethylene Glycol Monobutyl Ether  | LC 50 (Oncorhynchus) 1474 mg | EC 50 1840 mg/l, 72 h    | EC 50(Water Flea,48h) 1550mg/l   |
| Sodium (c14-16) olefin sulfonate | LC 50 2.6 mg/l, 96 h         | EC 50 42.3 mg/l, 72 h    | Not Established                  |

**Persistence and degradability:** Readily biodegradable.

**Bio accumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No other adverse environmental effects are expected from this product.

### SECTION 13. Disposal Considerations

#### Waste treatment

**Disposal Instructions:** Dispose of contents in accordance with local/regional/national/international regulations.

**Waste from residues / unused products:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### US EPA Waste Number

| Chemical Name     | RCRA      | RCRA- | RCRA-                    | RCRA-                   |
|-------------------|-----------|-------|--------------------------|-------------------------|
| Hydrofluoric Acid | 7664-39-3 | U134  | Basis for Listing<br>N/A | D Series Waste<br>N/A   |
|                   |           |       |                          | U Series Wastes<br>U134 |

#### California Hazardous Waste Status

| Chemical Name               | California Hazardous Waste Status |
|-----------------------------|-----------------------------------|
| Hydrofluoric Acid 7664-39-3 | Toxic / Corrosive                 |

### SECTION 14. Transportation Information

**DOT**      **Proper Name:** Hydrofluoric Acid Solution, with not more than 60% strength  
**Hazard Class:** 8 **Subsidiary Hazard Class** (6.1)  
**UN Number:** UN1790  
**Packing Group:** II

**IATA**      **Proper Name:** Hydrofluoric Acid Solution, with not more than 60% strength  
**Hazard Class:** 8 **Subsidiary Hazard Class** (6.1)  
**UN Number:** UN1790  
**Packing Group:** II

**IMDG**      **Proper Name:** Corrosive Liquid, Toxic, n.o.s. (Hydrofluoric and Sulfuric Acid)  
**Hazard Class:** 8 **Subsidiary Hazard Class** (6.1)  
**UN Number:** UN2922  
**Packing Group:** II

### SECTION 15. Regulatory Information

International Inventories: Not determined

### US Federal Regulations

#### SARA 313

| Chemical Name                   | CAS NUMBER | % BY WEIGHT | SARA 313- Threshold Value% |
|---------------------------------|------------|-------------|----------------------------|
| Hydrofluoric Acid               | 6834-92-0  | 9%          | 1.0%                       |
| Ethylene Glycol Monobutyl Ether | 111-76-2   | 1%          | 1.0%                       |

#### CWA (Clean Water Act)

| Chemical Name     | CAS NUMBER | CWA - Reportable Quantities | CWA - Hazardous Substances |
|-------------------|------------|-----------------------------|----------------------------|
| Hydrofluoric Acid | 6834-92-0  | 100 lbs.                    | X                          |

#### CERCLA

| Chemical Name                  | Hazardous Substances RQ | CERCLA/SARA RQ | Reportable Quantity (RQ)                     |
|--------------------------------|-------------------------|----------------|--|
| Hydrofluoric Acid<br>6834-92-0 | 100 lbs.                | 100 lbs.       | RQ 100 lbs. final RQ<br>RQ 45.4 kg. final RQ |

#### US Regulations

| Chemical Name                  | California Proposition 65 |
|--------------------------------|---------------------------|
| No ingredients require listing |                           |

#### US State Right -to-Know Regulations

| Chemical Name                             | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Hydrofluoric Acid<br>6834-92-0            | X          | X             | X            |
| Ethylene Glycol Monobutyl Ether<br>111-76 | X          | X             | X            |

### SECTION 16. Other Information

Issue Date: 05-14-15

Revision Date: None

Version: #1

NFPA rating



#### Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.