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Version 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name** TRU-BRITE

**Other means of identification**
**Product Code** 8804  
**UN/ID No.** UN3264  
**Synonyms** None

**Recommended use of the chemical and restrictions on use**
**Recommended Use** Silicate remover.  
**Uses advised against** No information available

**Manufacturer Address**

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

**Emergency telephone number**

Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Classification**

|                                   |                           |
|-----------------------------------|---------------------------|
| Acute toxicity - Oral             | Category 4                |
| Skin corrosion/irritation         | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1                |
| Corrosive to metals               | Category 1                |

**Label elements**
**Emergency Overview**
**Danger**
**Hazard statements**

 Harmful if swallowed  
 Causes severe skin burns and eye damage  
 May be corrosive to metals

**Appearance** aqueous solution

**Physical state** liquid

**Odor** Strong

**Precautionary Statements - Prevention**

 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep only in original container

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see Section 4 on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store locked up

Store in a corrosive resistant container.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

• Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity 1% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                   | CAS No.    | Weight-% | Trade Secret |
|---------------------------------|------------|----------|--------------|
| Ammonium bifluoride             | 1341-49-7  | 15       |              |
| Sulfamic acid                   | 5329-14-6  | 10       |              |
| Dipropylene Glycol Methyl Ether | 34590-94-8 | 4        |              |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First aid measures****Eye contact**

Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention. If a physician is not available immediately, rinse for an additional 15 minutes.

**Skin Contact**

Immediately flush with water for at least 15-20 minutes while removing contaminated clothing and shoes, paying particular attention to skin under the nails. Always get medical attention no matter how minor skin burns appear. Wash contaminated clothing before reuse, but destroy contaminated shoes.

**Inhalation**

Remove victim from immediate source of exposure to fresh air. If breathing is difficult, administer oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea, headache, or dizziness, get immediate medical attention.

**Ingestion**

Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Corrosive. May cause burns or irritation to eyes and skin. Vapors may cause burns to lungs and mucous membranes. Irreversible eye damage may occur in some cases. Hydrofluoric acid will penetrate skin & attack underlying tissues & bone. Large burns (25 sq. in.) may cause hypocalcemia.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical**

If the stock solution container breaks, the solution should be handled with care as it is corrosive. Contact with metals may evolve flammable hydrogen gas. Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

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

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection equipment.

**Environmental precautions** See Section 12 for additional ecological information.

**Methods for containment** Completely contain spilled material with dikes or sand bags, etc.

**Methods for cleaning up** Recover as much material as possible into containers for disposal or reuse. Remaining material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Do not breathe vapors or mists. Do not ingest. Wash thoroughly after handling. Wear protective clothing/equipment. Use with adequate ventilation.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed and properly labeled. Containers that have been emptied will retain product residue and should be handled as if they were full. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored.

**Incompatible materials** Oxidizing agents. Metals. Alkali.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name                                 | ACGIH TLV                           | OSHA PEL   | NIOSH IDLH  |
|---|-------------------------------------|--|---|
| Ammonium bifluoride<br>1341-49-7              | TWA: 2.5 mg/m <sup>3</sup> F        | TWA: 2.5 mg/m <sup>3</sup> F<br>TWA: 2.5 mg/m <sup>3</sup> dust<br>(vacated) TWA: 2.5 mg/m <sup>3</sup>  | TWA: 2.5 mg/m <sup>3</sup> F  |
| Dipropylene Glycol Methyl Ether<br>34590-94-8 | STEL: 150 ppm<br>TWA: 100 ppm<br>S* | TWA: 100 ppm<br>TWA: 600 mg/m <sup>3</sup><br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 600 mg/m <sup>3</sup><br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 900 mg/m <sup>3</sup><br>(vacated) S*<br>S* | IDLH: 600 ppm<br>TWA: 100 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 900 mg/m <sup>3</sup> |

#### Appropriate engineering controls

Showers  
Eyewash stations  
Ventilation systems.

#### Individual protection measures, such as personal protective equipment

|                                 |   |
|---------------------------------|---|
| <b>Eye/face protection</b>      | Goggles. Face protection shield.  |
| <b>Skin and body protection</b> | Wear protective gloves and protective clothing.   |
| <b>Respiratory protection</b>   | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                  |                       |                          |
|-----------------------|------------------|-----------------------|--------------------------|
| <b>Physical state</b> | liquid           | <b>Odor</b>           | Strong                   |
| <b>Appearance</b>     | aqueous solution | <b>Odor threshold</b> | No information available |
| <b>Color</b>          | clear green      |                       |                          |

| <u>Property</u>               | <u>Values</u>            | <u>Remarks • Method</u> |
|-------------------------------|--------------------------|-------------------------|
| pH                            | 3.1                      | 1% Solution             |
| Melting point/freezing point  | No information available |                         |
| Boiling point / boiling range | No information available |                         |
| Flash point                   | No information available |                         |
| Evaporation rate              | No information available |                         |
| Flammability (solid, gas)     | No information available |                         |
| Flammability Limit in Air     |                          |                         |
| Upper flammability limit:     | No information available |                         |
| Lower flammability limit:     | No information available |                         |
| Vapor pressure                | No information available |                         |
| Vapor density                 | No information available |                         |
| Specific Gravity              | 1.180                    |                         |
| Water solubility              | Soluble in water         |                         |
| Solubility in other solvents  | No information available |                         |
| Partition coefficient         | No information available |                         |
| Autoignition temperature      | No information available |                         |

|                                  |                          |
|----------------------------------|--------------------------|
| <b>Decomposition temperature</b> | No information available |
| <b>Kinematic viscosity</b>       | No information available |
| <b>Dynamic viscosity</b>         | No information available |
| <b>Explosive properties</b>      | No information available |
| <b>Oxidizing properties</b>      | No information available |

**Other Information**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | No information available |
| <b>Density</b>          | No information available |
| <b>Bulk density</b>     | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Corrodes most metals.

**Incompatible materials**

Oxidizing agents. Metals. Alkali.

**Hazardous Decomposition Products**

Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                            |                                 |
|----------------------------|---------------------------------|
| <b>Product Information</b> | No data available               |
| <b>Inhalation</b>          | Causes burns.                   |
| <b>Eye contact</b>         | Risk of serious damage to eyes. |
| <b>Skin Contact</b>        | Corrosive.                      |
| <b>Ingestion</b>           | Very toxic if swallowed.        |

| Chemical Name                                 | Oral LD50            | Dermal LD50             | Inhalation LC50 |
|---|----------------------|-------------------------|-----------------|
| Ammonium bifluoride<br>1341-49-7              | = 130 mg/kg ( Rat )  | -                       | -               |
| Sulfamic acid<br>5329-14-6                    | = 1450 mg/kg ( Rat ) | -                       | -               |
| Dipropylene Glycol Methyl Ether<br>34590-94-8 | = 5230 mg/kg ( Rat ) | = 9500 mg/kg ( Rabbit ) | -               |

**Information on toxicological effects****Symptoms** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.

| Chemical Name                    | ACGIH | IARC    | NTP | OSHA |
|----------------------------------|-------|---------|-----|------|
| Ammonium bifluoride<br>1341-49-7 | -     | Group 3 | -   | -    |

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

#### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 1% of the mixture consists of ingredient(s) of unknown toxicity  
**The following values are calculated based on chapter 3.1 of the GHS document .**  
**ATEmix (oral)** 813 mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

16% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name                                 | Algae/aquatic plants | Fish  | Crustacea                             |
|---|----------------------|---|---------------------------------------|
| Sulfamic acid<br>5329-14-6                    | -                    | 14.2: 96 h Pimephales promelas<br>mg/L LC50 static  | -                                     |
| Dipropylene Glycol Methyl Ether<br>34590-94-8 | -                    | 10000: 96 h Pimephales promelas<br>mg/L LC50 static | 1919: 48 h Daphnia magna mg/L<br>LC50 |

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

| Chemical Name                                 | Partition coefficient |
|---|-----------------------|
| Dipropylene Glycol Methyl Ether<br>34590-94-8 | -0.064                |

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

## 14. TRANSPORT INFORMATION

**DOT** Regulated  
**UN/ID No.** UN3264  
**Proper shipping name** Compounds, Cleaning Liquid  
**Hazardous ingredients** Sulfamic Acid / Hydrofluoric Acid)  
**Hazard Class** 8  
**Packing Group** II

## 15. REGULATORY INFORMATION

### International Inventories

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Complies        |
| <b>DSL/NDSL</b>      | Complies        |
| <b>EINECS/ELINCS</b> | Complies        |
| <b>ENCS</b>          | Does not comply |
| <b>IECSC</b>         | Complies        |
| <b>KECL</b>          | Complies        |
| <b>PICCS</b>         | Complies        |
| <b>AICS</b>          | Complies        |

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name                                | SARA 313 - Threshold Values % |
|--|-------------------------------|
| Ammonium bifluoride - 1341-49-7              | 1.0                           |
| Dipropylene Glycol Methyl Ether - 34590-94-8 | 1.0                           |

#### **SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name                    | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Ammonium bifluoride<br>1341-49-7 | 100 lb                      | -                      | -                         | X                          |

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

| Chemical Name                    | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|----------------------------------|--------------------------|----------------|---|
| Ammonium bifluoride<br>1341-49-7 | 100 lb                   | -              | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

