



# SAFETY DATA SHEET

Issue Date: 17-Mar-2015

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Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** MILL GLAZE REMOVER

### Other means of identification

**Synonyms** Sodium tetraborate decahydrate,  
disodium tetraborate decahydrate,  
borax decahydrate

### Recommended use of the chemical and restrictions on use

**Recommended Use** Mill Glaze Remover for Wood

**Restrictions on Use** None known.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Solar Chemicals Inc.  
3471 Atlanta Industrial Parkway  
Suite 200  
Atlanta, GA 30331 USA

#### **Distributor's Address**

Trimaco LLC  
2300 Gateway Centre Blvd Ste 200  
Morrisville, NC 27560

### Emergency telephone number

**Company Phone Number** 1-800-325-7356

**Emergency Telephone** Chemtrec 1-800-424-9300 (USA)

## 2. HAZARDS IDENTIFICATION

### Classification

|                                   |                           |
|-----------------------------------|---------------------------|
| Acute toxicity - Oral             | Category 5                |
| Serious eye damage/eye irritation | Category 2 Subcategory 2A |
| Reproductive toxicity             | Category 1B               |

### Signal Word

**Danger**

### Hazard Statements

Causes serious eye irritation.  
May be harmful if swallowed.  
May damage fertility or the unborn child.

**Appearance** White crystalline**Physical State** Solid**Odor** Odorless**Precautionary Statements – Prevention**

Wear protective gloves/protective clothing/eye protection/face protection.

Do not eat, drink or smoke when using this product.

Do not breathe powder.

Wash thoroughly after handling.

**Precautionary Statements – Response**

IF SWALLOWED: DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

IF INHALED: Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash skin with soap and copious amounts of water. Seek medical attention.

IF IN EYES: Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

**Precautionary Statements – Storage**

Store locked up.

**Precautionary Statements – Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Environmental hazards**

Not Applicable

**Other Information**

Not Applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name                  | CAS No    | Weight-% |
|--------------------------------|-----------|----------|
| Sodium tetraborate decahydrate | 1303-96-4 | 100      |

#### 4. FIRST AID MEASURES

##### First aid measures

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. |
| <b>Inhalation</b>     | Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.  |
| <b>Eye Contact</b>    | Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.  |
| <b>Ingestion</b>      | DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.               |
| <b>Skin Contact</b>   | Wash skin with soap and copious amounts of water. Seek medical attention.  |

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

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | INHALATION: Mild irritant. Can be irritating to respiratory tract, mouth and throat.<br>EYE CONTACT: Can cause serious irritation of the eyes, which may result in impairment of vision.<br>SKIN CONTACT: Contact with any part of the skin can cause mild irritation.<br>INGESTION: Swallowing may cause mild irritation of the throat, digestive tract and stomach. |
|-----------------|---|

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

|                           |   |
|---------------------------|---|
| <b>Note to physicians</b> | Observation only is required for adult ingestion in the range of 4-8 grams of borax 10 mol. For ingestion of larger amounts, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients with renal failure. Boron analyses of urine or blood are only useful for documenting exposure and should not be used to evaluate severity of poisoning or to guide treatment. |
|---------------------------|---|

#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Any fire extinguishing media may be used on nearby fires.

|                                       |                |
|---------------------------------------|----------------|
| <b>Unsuitable Extinguishing Media</b> | Not determined |
|---------------------------------------|----------------|

##### Specific hazards arising from the chemical

Borane and boron oxides expected to be the primary hazards.

##### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Use personal protective equipment. Actively avoid the inhalation of vapors, mist, dust, or gas. Confirm adequate ventilation prior to use of product. Remove personnel from the danger zone.

### Methods and material for containment and cleaning up

Without creating dust, sweep up and place material in a convenient waste disposal container. Keep container closed.

### Environmental precautions

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Advice on safe handling

Do not get on skin or in eyes. Avoid formation of dust and aerosols. Provide proper exhaust ventilation system in areas where dust forms.

### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep container tightly closed in a cool, dry, and well-ventilated place. Moisture sensitive.

#### Incompatible materials

Strong oxidizing agents, strong reducing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical Name                               | ACGIH   | OSHA PEL | NIOSH IDLH |
|---|---|----------|------------|
| Sodium tetraborate decahydrate<br>1303-96-4 | STEL - Ceiling: 6 mg/m <sup>3</sup><br>TWA - Ceiling: 2 mg/m <sup>3</sup> | -        | -          |

### Appropriate engineering controls

#### Engineering Controls

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

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

#### Eye/face Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

#### Skin and Body Protection

Wear suitable protective clothing and footwear appropriate for the risk of exposure. Wear protective Neoprene™ gloves.

#### Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |             |                       |                |
|-----------------------|-------------|-----------------------|----------------|
| <b>Physical state</b> | Solid       | <b>Odor</b>           | Odorless       |
| <b>Appearance</b>     | Crystalline | <b>Odor threshold</b> | Not determined |
| <b>Color</b>          | White       |                       |                |

| <u>Property</u>              | <u>Values</u>                  | <u>Remarks • Method</u>     |
|------------------------------|--------------------------------|-----------------------------|
| pH                           | 9.2                            | @ 10 g/L                    |
| Melting point/freezing point | 144° F                         | 62°C                        |
| Initial boiling point range  | Not determined                 |                             |
| Flash point                  | Not determined                 |                             |
| Evaporation rate             | Not determined                 |                             |
| Flammability (solid, gas)    | Not determined                 |                             |
| Flammability Limits in Air   | Not determined                 |                             |
| Upper flammability limits    | Not determined                 |                             |
| Lower flammability limits    | Not determined                 |                             |
| Vapor pressure               | Not determined                 |                             |
| Vapor density                | Not determined                 |                             |
| Specific gravity             | 1.73                           | (50% solution) @77°F (25°C) |
| Water solubility             | Completely miscible with water |                             |
| Solubility in other solvents | Not determined                 |                             |
| Partition in other solvents  | Not determined                 |                             |
| Partition coefficient        | Not determined                 |                             |
| Autoignition temperature     | Not determined                 |                             |
| Kinematic viscosity          | Not determined                 |                             |
| Dynamic viscosity            | Not determined                 |                             |
| Explosive properties         | Not determined                 |                             |
| Oxidizing properties         | Not determined                 |                             |

### Other Information

|                          |  |
|--------------------------|--|
| <b>Molecular formula</b> | B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> • 10H <sub>2</sub> O |
| <b>Molecular weight</b>  | 381.37 g/mol   |

## 10. STABILITY AND REACTIVITY

### Reactivity

Contact with metal may release flammable hydrogen gas.

### Chemical stability

Material is stable under normal conditions.

### Possibility of hazardous reactions

Hazardous polymerization does not occur.

### Conditions to avoid

No data available.

### Incompatible materials

Strong oxidizing agents, strong reducing agents.

### Hazardous decomposition products

Borane, Boron oxides, and Sodium oxides are expected to be, under fire conditions, the primary hazardous decomposition products.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|              |   |
|--------------|---|
| Inhalation   | May be harmful if inhaled. May cause respiratory tract irritation.  |
| Eye Contact  | May cause eye irritation.   |
| Skin Contact | May be harmful if absorbed through skin. May cause skin irritation. |
| Ingestion    | May be harmful if swallowed.  |

### Component Information

| Chemical Name                               | Oral LD50         | Dermal LD50           | Inhalation LC50 |
|---|-------------------|-----------------------|-----------------|
| Sodium tetraborate decahydrate<br>1303-96-4 | 4,500 mg/kg (Rat) | 10,000 mg/kg (Rabbit) | -               |

### 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** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Teratogenicity** Fetotoxicity; Presumed human reproductive toxicant

### Numerical measures of toxicity – Product

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life.

| Chemical Name                               | Algae/aquatic plants                              | Fish  | Toxicity to microorganisms | Crustacea |
|---|---|---|----------------------------|-----------|
| Sodium tetraborate decahydrate<br>1303-96-4 | <i>Scenedesmus subspicatus</i><br>96 hr: 158 mg/L | <i>Carassius auratus</i><br>178 mg/L, 72 hr |                            |           |

### Persistence and degradability

Not determined

### Bioaccumulation

Not determined

### Mobility

Not determined

### Other adverse effects

Not determined

### 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**

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

### 14. TRANSPORT INFORMATION

#### DOT

Not regulated

#### IATA

Not regulated

#### IMDG

Not regulated

### 15. REGULATORY INFORMATION

#### International Inventories

Not determined

#### Legend:

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

*DSL/NDL - 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*

#### U.S. Federal Regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 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).

#### SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | No  |
| Chronic health hazard             | Yes |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive hazard                   | No  |

#### U.S. State Regulations

##### California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
|---------------|------------|---------------|--------------|

|   |   |   |   |
|---|---|---|---|
| Sodium tetraborate decahydrate<br>1303-96-4 | X | X | X |
|---|---|---|---|

**U.S. EPA Label Information****16. OTHER INFORMATION****NFPA****Health hazards**

Not determined

**HMIS****Health hazards**

0

**Flammability**

Not determined

**Flammability**

0

**Instability**

Not determined

**Physical hazards**

0

**Special Hazards**

Not determined

**Personal protection**

X

**Issue Date:**

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17-Mar-2015

**Revision Note:**

New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its 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 only 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.

**End of Safety Data Sheet**