

### 01 Chemical Product and Company Identification

**Product Name** Zirconium  
**Product Use** Metal Cleaner  
**Product Code** 3855  
**For Medical Emergency** Call 'Chemtrec' 1-800-424-9300  
**Supplier's Information** Santec Inc.  
 1420 East Linden Avenue, Linden NJ 07036

### 02 Hazards Identification

**GHS Classification:** 1. Skin - Category 1  
 2. Eyes - Category 1

**GHS Label Element:**



**Signal Word:** Danger

**Hazard Statement:** Causes eye and skin burns. Harmful if swallowed.

**Precautionary Statements:** Wear protective gloves, splash goggles, face shield, full suit, respirator and boots. Do not breathe dust/ mist. Wash thoroughly after handling.

**Acute Effects**

**Eyes:** Causes eye burns. Contact with eyes may cause severe irritation and possible burns. Eye exposure may cause severe and permanent eye injury (blindness).

**Skin:** Causes skin burns. The amount of tissue damage depends on length of contact. Skin inflammation is characterized by itching, scaling, reddening or, occasionally blistering.

**Inhalation:** Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing.

**Ingestion:** Harmful if swallowed. May cause burns to mouth, throat and stomach.

**Chronic Effects**

**Carcinogenicity:** No known critical effects or critical hazards.

**Product /Ingredient Name:** Not available.

### 03 Composition/ Information on Ingredients

| Name of Hazardous Ingredients | CAS No.    | WT.%  |
|-------------------------------|------------|-------|
| Sodium Metasilicate           | 10213-79-3 | 30-40 |
| Sodium Carbonate              | 497-19-8   | 25-35 |
| Sodium Tripolyphosphate       | 7758-29-4  | 15-25 |
| Sodium Percarbonate           | 15630-89-4 | 1-5   |

### 04 First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.

**Inhalation:** Move exposed person to fresh air. Flush mouth and nasal passages with water repeatedly. Get medical attention immediately.

**Ingestion:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

### 05 Fire Fighting Measures

**Suitable Fire Extinguishing Media:** Use water spray, fog or foam

**Specific Hazards Arising from the Chemical:** None

**Hazardous Thermal Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>), phosphorus oxides.

**Specific Fire-Fighting Methods:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Specific Protective Equipment for Fire-Fighters:** Fire-Fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 06 Accidental Release Measures

**Spill Clean Up:** Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

### 07 Handling and Storage

**Handling:** Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Avoid breathing dust. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Wash thoroughly after handling.

**Storage:** Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Contains moisture-sensitive material. Store in a dry place. Do not store in unlabeled containers. Keep out of the reach of children.

### 08 Exposure Controls/ Personal Protection

| Ingredient Name     | Exposure Limits                                |
|---------------------|--|
| Sodium Carbonate    | OSHA PEL TWA 5 mg/m <sup>3</sup> , Form: Dust  |
| Sodium Metasilicate | OSHA PEL TWA 15 mg/m <sup>3</sup> , Form: Dust |
| Sodium Percarbonate | OSHA PEL TWA 5 mg/m <sup>3</sup> , Form: Dust  |

#### Personal Protective Equipment (PPE)

**Eyes:** Safety glasses, splash goggles.

**Skin:** Wear appropriate protective clothing to prevent skin contact. Wear apron or overall if there is a risk of exposure to spills.

**Body:** For prolonged or repeated handling, use gloves. Nitrile gloves. Rubber gloves. Neoprene gloves.

**Respiratory:** If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist.

### 09 Physical and Chemical Properties

|   |   |
|---|---|
| <b>Physical State</b>                       | Granular solid  |
| <b>Color</b>                                | White   |
| <b>Odor</b>                                 | Organic   |
| <b>pH</b>                                   | 11.0 - 12.0 (1% solution)   |
| <b>Flash point</b>                          | None  |
| <b>Explosion limits</b>                     | Not available   |
| <b>Flammability (solid, gas)</b>            | Not available   |
| <b>Melting point</b>                        | Not available   |
| <b>Boiling point</b>                        | Not available   |
| <b>Evaporation rate (butyl acetate = 1)</b> | Not available   |
| <b>Vapor pressure</b>                       | Not available   |
| <b>Vapor density</b>                        | Not available   |
| <b>Relative density</b>                     | 66 lb./ft <sup>3</sup>  |
| <b>Solubility</b>                           | Easily soluble in the following materials: cold water and hot water |
| <b>Partition coefficient n-octano/water</b> | Not available   |
| <b>Auto-ignition temperature</b>            | Not available   |
| <b>Decomposition temperature</b>            | Not available   |
| <b>Odor threshold</b>                       | Not available   |

### 10 Stability and Reactivity

**Stability:** The product is stable.

**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid:** No specific data.

**Materials to avoid:** Strong acids.

**Hazardous decomposition products:** Carbon oxides (CO, CO<sub>2</sub>), phosphorous oxides.

### 11 Toxicological Information

| Product /Ingredient Name | Result    | Species | Dose       |
|--------------------------|-----------|---------|------------|
| Sodium Metasilicate      | LD50 Oral | Rat     | 2200 mg/kg |
| Sodium Carbonate         | LD50 Oral | Rat     | 4090 mg/kg |
| Sodium Tripolyphosphate  | LD50 Oral | Rat     | 3120 mg/kg |
| Sodium Percarbonate      | LD50 Oral | Rat     | 1034 mg/kg |

### 12 Ecological Information

N/A

### 13 Disposal Considerations

**Waste Information**  
 Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

### 14 Transport Information

| Regulatory Information    | UN Number     | Proper Shipping Name | Classes | PG* | Label |
|---------------------------|---------------|----------------------|---------|-----|-------|
| <b>DOT Classification</b> | not regulated | -                    | -       | -   | -     |

**Note:** DOT classification applies to most package sizes. For specific container size classifications or size exceptions, refer to the bill of lading with your shipment.

**PG\*:** Packing Group

### 15 Regulatory Information

**U.S. Federal Regulations**

**TSCA 8(b) inventory:** All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances:** No listed substance

**SARA 302/304 emergency planning and notification:** No listed substance

| SARA 313                      | Product name        | CAS number | Concentration |
|-------------------------------|---------------------|------------|---------------|
| Form R-Reporting requirements | No listed substance |            |               |

### 16 Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Date of Issue: 06/23/2016**

\*Hazard Determination System (HDS):

|                     |          |
|---------------------|----------|
| <b>Health</b>       | <b>3</b> |
| <b>Reactivity</b>   | <b>0</b> |
| <b>Flammability</b> | <b>0</b> |

*\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimum hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.*