

# Safety Data Sheet

Issue Date: 27-Jun-2013

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Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Triumph

### Other means of identification

**SDS #** CTI-031

**UN/ID No** UN1759

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

**Recommended Use** Non-Phosphate Institutional Warewashing Compound.

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

#### Supplier Address

Chemtron Incorporated  
7350 C Lockport Place  
Lorton, Virginia 22079

### Emergency Telephone Number

**Company Phone Number** Information: 703-550-7772

**Emergency Telephone (24 hr)** Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

**Appearance** White powder

**Physical State** Solid (Powder)

**Odor** Faint chlorine

### Classification

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1                |

### Signal Word

**Danger**

### Hazard Statements

Causes severe skin burns and eye damage

May be harmful in contact with skin



### Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

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

**Precautionary Statements - Response**

Immediately call a poison center or doctor/physician

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: rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards**

Harmful to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name    | CAS No    | Weight-% |
|------------------|-----------|----------|
| Sodium hydroxide | 1310-73-2 | <39      |
| Sodium carbonate | 497-19-8  | <16      |
| HEDP             | 2809-21-4 | <3       |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Provide this SDS to medical personnel for treatment.   |
| <b>Eye Contact</b>    | 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. |
| <b>Skin Contact</b>   | Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.  |
| <b>Inhalation</b>     | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.                                 |
| <b>Ingestion</b>      | Rinse mouth. Do not induce vomiting.   |

**Most important symptoms and effects**

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | May be harmful in contact with skin. Causes severe skin burns and eye damage. |
|-----------------|---|

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | 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** Not determined.

### Specific Hazards Arising from the Chemical

In the presence of extreme heat, as in a fire, this product may react with active metals (e.g. aluminum, zinc, etc.) to release flammable hydrogen gas. Non-flammable, however when moistened, the product will generate heat due to the exothermic reaction with water. Run off water from a large number of cases may be corrosive.

### 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** Use personal protective equipment as required.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.

### Conditions for safe storage, including any incompatibilities

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

**Incompatible Materials** Acids. Strong oxidizers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical Name                 | ACGIH TLV                    | OSHA PEL   | NIOSH IDLH   |
|-------------------------------|------------------------------|--|--|
| Sodium hydroxide<br>1310-73-2 | Ceiling: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup><br>(vacated) Ceiling: 2 mg/m <sup>3</sup> | IDLH: 10 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup> |

### Appropriate engineering controls

**Engineering Controls**                      Showers  
    Eyewash stations  
    Ventilation systems.

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

**Eye/Face Protection**                      Avoid contact with eyes.

**Skin and Body Protection**                Wear suitable protective clothing.

**Respiratory Protection**                    Ensure adequate ventilation, especially in confined areas.

**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> | Solid (Powder) | <b>Odor</b>           | Faint chlorine |
| <b>Appearance</b>     | White powder   | <b>Odor Threshold</b> | Not determined |
| <b>Color</b>          | White          |                       |                |

| <u>Property</u>              | <u>Values</u>  | <u>Remarks • Method</u> |
|------------------------------|----------------|-------------------------|
| pH                           | Not determined |                         |
| Melting Point/Freezing Point | Not determined |                         |
| Boiling Point/Boiling Range  | Not determined |                         |
| Flash Point                  | Not determined |                         |
| Evaporation Rate             | Not determined |                         |
| Flammability (Solid, Gas)    | Not determined |                         |
| Upper Flammability Limits    | Not determined |                         |
| Lower Flammability Limit     | Not determined |                         |
| Vapor Pressure               | Not determined |                         |
| Vapor Density                | Not determined |                         |
| Specific Gravity             | Not determined |                         |
| Water Solubility             | Not determined |                         |
| Solubility in other solvents | Not determined |                         |
| Partition Coefficient        | Not determined |                         |
| Auto-ignition Temperature    | Not determined |                         |
| Decomposition Temperature    | Not determined |                         |
| Kinematic Viscosity          | Not determined |                         |
| Dynamic Viscosity            | Not determined |                         |
| Explosive Properties         | Not determined |                         |
| Oxidizing Properties         | Not determined |                         |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible Materials

Acids. Strong oxidizers.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** Do not inhale.

**Ingestion** Do not ingest.

### Component Information

| Chemical Name                             | Oral LD50            | Dermal LD50             | Inhalation LC50                   |
|---|----------------------|-------------------------|-----------------------------------|
| Sodium hydroxide<br>1310-73-2             | -                    | = 1350 mg/kg ( Rabbit ) | -                                 |
| Sodium carbonate<br>497-19-8              | = 4090 mg/kg ( Rat ) | -                       | -                                 |
| Sodium Chloride<br>7647-14-5              | = 3 g/kg ( Rat )     | > 10 g/kg ( Rabbit )    | > 42 g/m <sup>3</sup> ( Rat ) 1 h |
| HEDP<br>2809-21-4                         | = 2400 mg/kg ( Rat ) | > 7940 mg/kg ( Rabbit ) | -                                 |
| Ethoxylated Polyoxypropylene<br>9003-11-6 | = 5700 mg/kg ( Rat ) | -                       | -                                 |

### 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.

### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

13% of the mixture consists of component(s) of unknown hazards to the aquatic environment

### Component Information

| Chemical Name                 | Algae/aquatic plants                             | Fish   | Toxicity to microorganisms | Crustacea  |
|-------------------------------|--|--|----------------------------|--|
| Sodium hydroxide<br>1310-73-2 |  | 45.4: 96 h Oncorhynchus mykiss mg/L LC50 static  |                            |  |
| Sodium carbonate<br>497-19-8  | 242: 120 h Nitzschia mg/L EC50                   | 300: 96 h Lepomis macrochirus mg/L LC50 static<br>310 - 1220: 96 h Pimephales promelas mg/L LC50 static  |                            | 265: 48 h Daphnia magna mg/L EC50  |
| Sodium Chloride<br>7647-14-5  |  | 5560 - 6080: 96 h Lepomis macrochirus mg/L LC50 flow-through<br>12946: 96 h Lepomis macrochirus mg/L LC50 static<br>6020 - 7070: 96 h Pimephales promelas mg/L LC50 static<br>7050: 96 h Pimephales promelas mg/L LC50 semi-static<br>6420 - 6700: 96 h Pimephales promelas mg/L LC50 static<br>4747 - 7824: 96 h Oncorhynchus mykiss mg/L LC50 flow-through |                            | 1000: 48 h Daphnia magna mg/L EC50<br>340.7 - 469.2: 48 h Daphnia magna mg/L EC50 Static |
| HEDP<br>2809-21-4             |  | 868: 96 h Lepomis macrochirus mg/L LC50 static<br>360: 96 h Oncorhynchus mykiss mg/L LC50 static   |                            | 527: 48 h Daphnia magna mg/L EC50  |
| Sodium Citrate<br>68-04-2     | 18000 - 32000: 96 h Chlorella vulgaris mg/L EC50 | 18000 - 32000: 96 h Poecilia reticulata mg/L LC50  |                            | 5600 - 10000: 48 h Daphnia magna mg/L EC50   |

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

| Chemical Name     | Partition Coefficient |
|-------------------|-----------------------|
| HEDP<br>2809-21-4 | 3.49                  |

### Other Adverse Effects

Not determined

### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

|                               |   |
|-------------------------------|---|
| <b>Disposal of Wastes</b>     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| <b>Contaminated Packaging</b> | Disposal should be in accordance with applicable regional, national and local laws and regulations. |

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste

| Chemical Name                 | California Hazardous Waste Status |
|-------------------------------|-----------------------------------|
| Sodium hydroxide<br>1310-73-2 | Toxic<br>Corrosive                |
| Sodium carbonate<br>497-19-8  | Corrosive                         |

### 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

#### DOT

|                             |   |
|-----------------------------|---|
| <b>UN/ID No</b>             | UN1759  |
| <b>Proper Shipping Name</b> | Corrosive solid, n.o.s. (contains Sodium hydroxide) |
| <b>Hazard Class</b>         | 8   |
| <b>Packing Group</b>        | II  |

#### IATA

|                             |   |
|-----------------------------|---|
|                             | Not determined                                      |
| <b>UN/ID No</b>             | UN1759  |
| <b>Proper Shipping Name</b> | Corrosive solid, n.o.s. (contains Sodium hydroxide) |
| <b>Hazard Class</b>         | 8   |
| <b>Packing Group</b>        | II  |

#### IMDG

|                             |   |
|-----------------------------|---|
|                             | Not determined                                      |
| <b>UN/ID No</b>             | UN1759  |
| <b>Proper Shipping Name</b> | Corrosive solid, n.o.s. (contains Sodium hydroxide) |
| <b>Hazard Class</b>         | 8   |
| <b>Packing Group</b>        | II  |

### 15. REGULATORY INFORMATION

#### International Inventories

| Chemical Name    | TSCA    | DSL | NDSL | EINECS  | ELINCS | ENCS    | IECSC | KECL    | PICCS | AICS |
|------------------|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Sodium hydroxide | Present | X   |      | Present |        | Present | X     | Present | X     | X    |
| Sodium carbonate | Present | X   |      | Present |        | Present | X     | Present | X     | X    |
| HEDP             | Present | X   |      | Present |        | Present | X     | Present | X     | X    |

#### **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****CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name                 | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|-------------------------------|--------------------------|----------------|---|
| Sodium hydroxide<br>1310-73-2 | 1000 lb                  |                | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**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

**CWA (Clean Water Act)**

This product contains the following substances which are regulated 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 |
|------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium hydroxide | 1000 lb                     |                        |                           | X                          |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

| Chemical Name                 | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|------------|---------------|--------------|
| Sodium hydroxide<br>1310-73-2 | X          | X             | X            |

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

**NFPA****Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS****Health Hazards**

Not determined

**Flammability**

Not determined

**Physical Hazards**

Not determined

**Personal Protection**

Not determined

**Issue Date:**

27-Jun-2013

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01-Dec-2014

**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**