

# Material Safety Data Sheet

ENFORCER



## 1. Product and company identification

Trade name of product : ENFORCER  
Product use : Ecolab Intermediate

Product dilution information : Not applicable

Supplier's information : Ecolab Inc. Institutional Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-352-5326

Code : 954735

Date of issue : 16-April-2012

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## 2. Hazards identification

### Product AS SOLD

Physical state : Powder  
Emergency overview : DANGER !

CAUSES DIGESTIVE TRACT AND EYE BURNS.  
OXIDIZER.  
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.  
CAUSES RESPIRATORY TRACT AND SKIN IRRITATION.

Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing dust. Keep away from heat, sparks and flame. Keep only in the original container. Avoid contact with combustible materials. Keep away from heat and direct sunlight. Decomposes on heating. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

### Product AT USE DILUTION

Product is sold ready to use.

### Potential acute health effects

#### Product AS SOLD

Eyes : Corrosive to eyes.  
Skin : Irritating to skin.  
Inhalation : Irritating to respiratory system.  
Ingestion : Causes burns to mouth, throat and stomach.

See toxicological information (Section 11)

### Product AT USE DILUTION

Product is sold ready to use.

## 3. Composition/information on ingredients

### Product AS SOLD

Name  
PENTASODIUM TRIPHOSPHATE  
troclosene sodium, dihydrate  
1-octanesulfonic acid, sodium salt

| <u>CAS number</u> | <u>% by weight</u> |
|-------------------|--------------------|
| 7758-29-4         | 8                  |
| 51580-86-0        | >50                |
| 5324-84-5         | 5 - 20             |

### 3. Composition/information on ingredients

#### Product AT USE DILUTION

##### Name

Product is sold ready to use.

##### CAS number

##### % by weight

### 4. First aid measures

#### Product AS SOLD

- Eye contact** : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Inhalation** : If inhaled, remove to fresh air. Get medical attention if irritation persists.
- Ingestion** : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### Product AT USE DILUTION

Product is sold ready to use.

### 5. Fire-fighting measures

#### Product AS SOLD

##### Hazardous thermal decomposition products

- : Decomposition products may include the following materials:
- carbon dioxide
  - carbon monoxide
  - nitrogen oxides
  - sulfur oxides
  - phosphorus oxides
  - halogenated compounds
  - metal oxide/oxides

##### Fire-fighting media and instructions

- : Use dry chemical powder.

Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Dike area of fire to prevent runoff. Contact with combustible material may cause fire. Fine dust clouds may form explosive mixtures with air. This material increases the risk of fire and may aid combustion.

##### Special 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.

### 6. Accidental release measures

#### Product AS SOLD

- Personal precautions** : Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid contact of spilled material and runoff with soil and surface waterways.

#### Product AT USE DILUTION

Product is sold ready to use.

## 6. Accidental release measures

**Methods for cleaning up** : If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material, e.g. sand, earth or other suitable material and place in a suitable container for disposal. Use a water rinse for final clean-up.

## 7. Handling and storage

**Handling** : **Product AS SOLD**  
: Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing dust. Avoid contact with combustible materials. Keep container closed. Keep only in the original container. Use only with adequate ventilation. Wash thoroughly after handling.

**Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed. Store in a closed container. Keep container tightly closed. Separate from reducing agents and combustible materials.

Do not store above the following temperature: 40°C

### Product AT USE DILUTION

Product is sold ready to use.

## 8. Exposure controls/personal protection

**Engineering measures** : **Product AS SOLD**  
: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Personal protection

**Eyes** : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

**Hands** : For prolonged or repeated handling, use the following type of gloves: Impervious gloves.

**Skin** : No protective equipment is needed under normal use conditions.

**Respiratory** : Avoid breathing dust.

### Product AT USE DILUTION

Product is sold ready to use.

Product is sold ready to use.

Consult local authorities for acceptable exposure limits.

## 9. Physical and chemical properties

**Physical state** : **Product AS SOLD**  
: Powder

**Flash point** : > 100°C

**Color** : White

**Odor** : chlorine

**pH** : 10 [Conc. (% w/w): 1%]

**Solubility** : Soluble in the following materials: cold water and hot water.

### Product AT USE DILUTION

Product is sold ready to use.

## 10. Stability and reactivity

### Product AS SOLD

- Stability** : The product is stable. Decomposes on heating. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Reactivity** : Reactive with organic materials, metals, alkalis, moisture.  
Mixing this product with acid or ammonia releases chlorine gas. Do not allow water to enter container. Wet material may generate halogenated gas that may pressurize sealed containers.
- Hazardous decomposition products** : Oxygen
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

### Potential acute health effects

#### Product AS SOLD

- Eyes** : Corrosive to eyes.
- Skin** : Irritating to skin.
- Inhalation** : Irritating to respiratory system.
- Ingestion** : Causes burns to mouth, throat and stomach.

#### Product AT USE DILUTION

Product is sold ready to use.

## 12. Ecological information

- Ecotoxicity** : Not reported

## 13. Disposal considerations

#### Product AS SOLD

- Waste disposal** : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.
- RCRA classification** : Unused product is D001 (Ignitable)

#### Product AT USE DILUTION

Product is sold ready to use.

## 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

#### Product AS SOLD

**DOT Classification** Not regulated.

For transport in bulk or using IMDG regulations, see shipping documents for specific transportation information.

## 15. Regulatory information

#### Product AS SOLD

- HCS Classification** : Oxidizing material  
Corrosive material

#### Product AS SOLD

#### U.S. Federal regulations

- TSCA 8(b) inventory** : At least one component is not listed.
- SARA 302/304/311/312 extremely hazardous substances**: No listed substance
- SARA 302/304 emergency planning and notification**: No listed substance

#### Product AT USE DILUTION

Product is sold ready to use.

## 15. Regulatory information

**SARA 313****Product name****CAS number****Concentration**

Form R - Reporting requirements

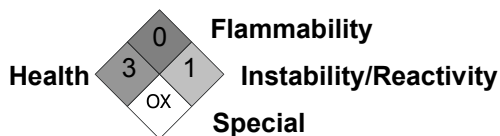
: No listed substance

**California Prop. 65**: **WARNING:** This product contains a chemical known to the State of California to cause cancer.

## 16. Other information

**Product AS SOLD**Hazardous Material :  
Information System (U.S.A.)

|                  |   |
|------------------|---|
| Health           | 3 |
| Flammability     | 0 |
| Physical hazards | 1 |
|                  |   |

National Fire Protection :  
Association (U.S.A.)

Date of issue : 16-April-2012

Responsible name : Regulatory Affairs  
1-800-352-5326

▣ Indicates information that has changed from previously issued version.

**Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.