# SAFETY DATA SHEET



#### **ENFORCER NP ENF**

## Section 1. Chemical product and company identification

Product name : ENFORCER NP ENF

Recommended use and

restrictions

: Intermediate.

Use only for the purpose on the product label.

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 : 908762-01

Date of issue : 26 Nov 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026

Outside United States and Canada CALL 1-651-222-5352 (in USA)

### Section 2. Hazards identification

Product AS SOLD

GHS Classification : OXIDIZING SOLIDS - Category 1

COMBUSTIBLE DUSTS

SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 2A

SPEČIFÍC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract

irritation] - Category 3

**GHS label elements** 

Signal word : Danger

Symbol :





**Hazard statements**: May cause fire or explosion; strong oxidizer.

May form combustible dust concentrations in

air.

Causes serious eye irritation. May cause respiratory irritation.

**Precautionary statements** 

**Prevention**: Wear fire resistant clothing. Wear eye or face protection. Keep away from heat. - No smoking.

Keep away from clothing, incompatible materials and combustible materials. Take any precaution to avoid mixing with combustibles and other incompatible materials. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Wash hands thoroughly after

handling. Mixing this product with acid or

ammonia releases chlorine gas.

**Product AT USE DILUTION** 

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### Section 2. Hazards identification

: In case of major fire and large quantities: Response

> Evacuate area. Fight fire remotely due to the risk of explosion. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before

removing clothes.

: No other specific measures identified. Storage

Disposal : See section 13 for waste disposal information.

Other hazards : Handling and/or processing of this material may generate a dust which can cause

mechanical irritation of the eyes, skin, nose and

throat.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

**Product AS SOLD** 

**Hazardous ingredients Concentration Range (%) CAS** number

troclosene sodium, dihydrate >50 51580-86-0 5 - 20 1-octanesulfonic acid, sodium salt 5324-84-5

1 - 5 NJ 0109087631008 **Proprietary** 

tert-butyl peroxybenzoate <1.0 614-45-9

Product AT USE DILUTION

Hazardous ingredients Concentration Range (%) **CAS** number

Product is sold ready to use.

### Section 4. First aid measures

**Product AS SOLD** 

Eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention if

irritation persists.

: No known effect after skin contact. Rinse with Skin contact

water for a few minutes.

Inhalation : Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if you feel unwell.

: Get medical attention if symptoms occur. Ingestion

: No action shall be taken involving any personal risk or without suitable training. It may be Protection of first-

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**Product AT USE DILUTION** 

Product is sold ready to use.

aiders

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The Notes to physician

exposed person may need to be kept under medical surveillance for 48 hours.

See toxicological information (section 11)

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### Section 5. Fire-fighting measures

**Product AS SOLD** 

Suitable fire extinguishing

media

: Use dry chemical powder.

Specific hazards arising from the chemical Hazardous thermal decomposition products : Strongly oxidizing material. May cause fire or explosion. Fine dust clouds may form explosive mixtures with air.

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

Specific fire-fighting methods

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Risk of explosion. If large quantities are involved in a major fire. evacuate the area. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum possible distance.

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.

### Section 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 **Methods for** cleaning up

: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. : Collect spillage. Use a water rinse for final clean-

**Product AT USE DILUTION** 

Product is sold ready to use.

# Section 7. Handling and storage

**Product AS SOLD** 

Handling

: Avoid contact with eyes, skin and clothing. Keep away from combustible materials. Keep only in original container. Wash thoroughly after handling. Mixing this product with acid or

ammonia releases chlorine gas.

Storage

Keep out of reach of children. Keep container tightly closed. Keep container in a cool, wellventilated area. Separate from reducing agents and combustible materials.

Store between the following temperatures: 5 and

50°C

**Product AT USE DILUTION** 

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## Section 8. Exposure controls/personal protection

#### **Control parameters**

Ingredient name	Exposure limits
chlorine	ACGIH TLV (United States, 3/2012).  STEL: 2.9 mg/m³ 15 minutes.  STEL: 1 ppm 15 minutes.  TWA: 1.5 mg/m³ 8 hours.  TWA: 0.5 ppm 8 hours.  OSHA PEL (United States, 6/2010).  CEIL: 3 mg/m³  CEIL: 1 ppm  NIOSH REL (United States, 6/2009).  CEIL: 0.5 ppm 15 minutes.  CEIL: 1.45 mg/m³ 15 minutes.

**Product AS SOLD** 

Appropriate engineering controls

: 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.

**Personal protection** 

**Eye protection**: Wear eye protection.

**Hand protection**: No protective equipment is needed under normal

use conditions.

**Skin protection**: No protective equipment is needed under normal

use conditions.

Respiratory protection

: A respirator is not needed under normal and

intended conditions of product use.

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical products, before eating,

smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing

before reusing.

## Section 9. Physical and chemical properties

**Product AS SOLD** 

Physical state : Powder
Color : White
Odor : chlorine
pH : 5 to 7 (1%)
Flash point : > 100°C

Product does not support combustion.

**Explosion limits**: Not available. **Flammability (solid,**: Not available.

gas)

Melting point: Not available.Boiling point: Not available.Evaporation rate: Not available.

(butyl acetate = 1)

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 0.8 to 1 (Water = 1)

Product AT USE DILUTION

**Product AT USE DILUTION** 

Product is sold ready to use.

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### Section 9. Physical and chemical properties

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

Partially soluble in the following materials: cold

water.

Partition coefficient: : Not available.

n-octanol/water

Auto-ignition temperature

: Not available.

Decomposition

: Not available.

temperature

Odor threshold

: Not available.

Viscosity : Kinematic (room temperature): 0 cm²/s (0 cSt)

### Section 10. Stability and reactivity

**Product AS SOLD** 

**Stability**: The product is stable.

Possibility of hazardous reactions

: Hazardous reactions or instability may occur under certain conditions of storage or

use

Conditions may include the following: contact with combustible materials Reactions may include the following:

risk of explosion

**Conditions to avoid** : Avoid the creation of dust when handling and avoid all possible sources of ignition

(spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust

accumulation.

Materials to avoid : Highly reactive or incompatible with the following materials: acids.

Reactive or incompatible with the following materials: moisture.

Slightly reactive or incompatible with the following materials: organic materials and

metals.

Do not allow water to enter container. Wet material may generate halogenated gas that may pressurize sealed containers. Mixing this product with acid or ammonia

releases chlorine gas.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Ingestion

**Product AS SOLD** 

**Symptoms** 

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

**Skin contact**: No specific data.

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Respiratory tract irritation

**Ingestion**: No specific data.

Acute toxicity

**Eye contact**: Causes serious eye irritation.

#### Product AT USE DILUTION

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# **Section 11. Toxicological information**

**Skin contact**: No known significant effects or critical hazards.

**Inhalation**: May cause respiratory irritation.

**Ingestion**: No known significant effects or critical hazards.

#### **Toxicity data**

#### Product/ingredient name

tert-butyl peroxybenzoate

troclosene sodium, dihydrate LD50 Dermal Rat >5000 mg/kg LD50 Oral Rat 1823 mg/kg 1-octanesulfonic acid, sodium salt LD50 Oral Rat >5000 mg/kg Disodium 1,2-octane disulfonate LD50 Dermal Rabbit >500 mg/kg LD50 Oral Rat 2175 mg/kg

LC50 Inhalation Rat >1 mg/l

Dusts and mists

LD50 Dermal Rabbit 3817 mg/kg LD50 Oral Rat >2000 mg/kg

**Chronic toxicity** 

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

### Section 12. Ecological information

#### **Product AS SOLD**

**Ecotoxicity** : This material is very toxic to aquatic life.

**Aquatic and terrestrial toxicity** 

Product/ingredient name Result **Species Exposure** troclosene sodium, dihydrate Acute EC50 0.196 mg/l Daphnia 48 hours 1-octanesulfonic acid, sodium salt Acute EC50 3200 mg/l Daphnia 48 hours Disodium 1,2-octane disulfonate Acute EC50 31 mg/l Daphnia 48 hours tert-butyl peroxybenzoate Acute EC50 0.8 mg/l Aquatic plants 72 hours

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Product AS SOLD** 

**Disposal methods**: 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.

# **Section 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.

<u>DOT</u>

DOT Classification Not regulated.

**IMO/IMDG** 

IMO/IMDG Classification UN3077

IMO/IMDG Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(troclosene sodium, dihydrate). Marine pollutant

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### **Section 14. Transport information**

**Class** 

For transport in bulk, see shipping documents for specific transportation information.

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#### Product AT USE DILUTION

Not intended for transport.

### Section 15. Regulatory information

#### **Product AS SOLD**

Packing group

#### **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

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

Form R - Reporting

requirements

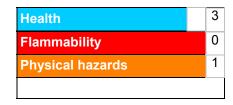
: No listed substance

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

### Section 16. Other information

#### **Product AS SOLD**

**Hazardous Material** Information System (U.S.A.)



# **National Fire Protection**

Association (U.S.A.)



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1-800-352-5326

#### 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.