

SAFETY DATA SHEET



ECO-STAR OXY-BRITE

Section 1. Chemical product and company identification

Product name : ECO-STAR OXY-BRITE

Recommended use and restrictions : Laundry product

Use only for the purpose on the product label.

Product dilution information : Up to 7 oz/50 gal or 55 mL/50 L in water

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

Code : 959320

Date of issue : 25 Mar 2013

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

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
: OXIDIZING LIQUIDS - Category 3
ACUTE TOXICITY: ORAL - Category 4
SERIOUS EYE DAMAGE/ EYE IRRITATION -
Category 1
AQUATIC TOXICITY (ACUTE) - Category 2

GHS label elements

Signal word : Danger

Symbol : 

Hazard statements : May intensify fire; oxidizer.
Harmful if swallowed.
Causes serious eye damage.
Toxic to aquatic life.

Precautionary statements

Prevention : Wear eye or face protection. Keep away from heat. - No smoking. Keep away from clothing, incompatible materials and combustible materials. Avoid release to the environment. Wash hands thoroughly after handling.

Response : IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. 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 physician.

Storage : No other specific measures identified.

Disposal :

Product AT USE DILUTION

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

Section 2. Hazards identification

See section 13 for waste disposal information.

See section 13 for waste disposal information.

Other hazards : None known.

None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients

Concentration Range (%)

CAS number

HYDROGEN PEROXIDE

33

7722-84-1

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

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 immediately.

Skin contact : No known effect after skin contact. Rinse with water for a few minutes.

Inhalation : No special measures required. Treat symptomatically.

Ingestion : Get medical attention if you feel unwell. Rinse mouth.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (section 11)

Product AT USE DILUTION

No known effect after eye contact. Rinse with water for a few minutes.

No known effect after skin contact. Rinse with water for a few minutes.

No special measures required. Treat symptomatically.

Get medical attention if symptoms occur.

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing media : Use water spray, fog or foam.

Specific hazards arising from the chemical : Oxidizing material. May intensify fire. In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : No specific data.

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 :

Section 5. Fire-fighting measures

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 | Product AT USE DILUTION |
|----------------------------------|---|--|
| 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. | Use personal protective equipment as required. |
| Environmental precautions | : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. | Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. |
| Methods for cleaning up | : If emergency personnel are unavailable, contain spilled material. Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container. Use a water rinse for final clean-up. | Use a water rinse for final clean-up. |

Section 7. Handling and storage

| | Product AS SOLD | Product AT USE DILUTION |
|-----------------|--|---------------------------------|
| Handling | : Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Keep away from combustible materials. Keep only in original container. Use only with adequate ventilation. Wash thoroughly after handling. | Wash thoroughly after handling. |
| Storage | : Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from reducing agents and combustible materials. Store between the following temperatures: 0 and 50°C | Keep out of reach of children. |

Section 8. Exposure controls/personal protection

Control parameters

| Ingredient name | Exposure limits |
|-------------------|--|
| HYDROGEN PEROXIDE | ACGIH TLV (United States, 3/2012). TWA: 1.4 mg/m ³ 8 hours. TWA: 1 ppm 8 hours. OSHA PEL (United States, 6/2010). TWA: 1.4 mg/m ³ 8 hours. TWA: 1 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 1 ppm 10 hours. TWA: 1.4 mg/m ³ 10 hours. |

Section 8. Exposure controls/personal protection

| | Product AS SOLD | Product AT USE DILUTION |
|---|--|--|
| 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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| Personal protection | | |
| Eye protection | : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles. | No protective equipment is needed under normal use conditions. |
| Hand protection | : No protective equipment is needed under normal use conditions. | No protective equipment is needed under normal use conditions. |
| Skin protection | : No protective equipment is needed under normal use conditions. | No protective equipment is needed under normal use conditions. |
| Respiratory protection | : A respirator is not needed under normal and intended conditions of product use. | 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 | Product AT USE DILUTION |
|---|--|-------------------------|
| Physical state | : Liquid. | Liquid. |
| Color | : Clear | Colorless |
| Odor | : Pungent | Odorless |
| pH | : 1.7 to 3.2 (100%) | 3 to 5 |
| Flash point | : > 100°C | > 100°C |
| Explosion limits | : Not available. | |
| Flammability (solid, gas) | : Not available. | |
| Melting point | : Not available. | |
| Boiling point | : >100°C (>212°F) | |
| Evaporation rate (butyl acetate = 1) | : Not available. | |
| Vapor pressure | : Not available. | |
| Vapor density | : Not available. | |
| Relative density | : 1.08 to 1.18 (Water = 1) | |
| Solubility | : Easily soluble in the following materials: cold water and hot water. | |
| Partition coefficient: n-octanol/water | : Not available. | |
| Auto-ignition temperature | : Not available. | |
| Decomposition temperature | : Not available. | |
| Odor threshold | : Not available. | |

Section 9. Physical and chemical properties

Viscosity : Not available.

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 causing or intensifying fire
- Conditions to avoid** : Drying on clothing or other combustible materials may cause fire.
- Materials to avoid** : Highly reactive or incompatible with the following materials: organic materials, metals and alkalis.
Reactive or incompatible with the following materials: acids.
- 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, Inhalation, Ingestion

Product AS SOLD

Symptoms

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Skin contact : No specific data.

Inhalation : No specific data.

Ingestion : No specific data.

Acute toxicity

Eye contact : Causes serious eye damage.

Skin contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Ingestion : Harmful if swallowed.

Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Toxicity data

| Product/ingredient name | Result | Species | Dose |
|-------------------------|-------------|---------|-------------|
| Hydrogen peroxide | LD50 Dermal | Rabbit | >2000 mg/kg |
| | LD50 Oral | Rat | 486 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 toxic to aquatic life.

Aquatic and terrestrial toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|----------------------|----------------|----------|
| Hydrogen peroxide | Acute EC50 1.38 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 D002 (Corrosive)

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

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.

DOT

| | |
|--------------------------|--------------------------------------|
| DOT Classification | UN2014 |
| DOT Proper shipping name | Hydrogen peroxide, aqueous solutions |
| Class | 5.1 (8) |
| Packing group | II |

IMO/IMDG

| | |
|-------------------------------|-------------------------------------|
| IMO/IMDG Classification | UN2014 |
| IMO/IMDG Proper shipping name | HYDROGEN PEROXIDE, AQUEOUS SOLUTION |
| Class | 5.1 (8) |
| Packing group | II |

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

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

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

| <u>SARA 313</u> | <u>Product name</u> | <u>CAS number</u> | <u>Concentration</u> |
|---------------------------------|-----------------------|-------------------|----------------------|
| Form R - Reporting requirements | : No listed substance | | |

California Prop. 65 : No listed substance

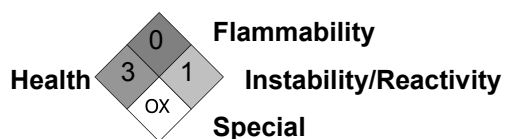
Section 16. Other information

Product AS SOLD

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

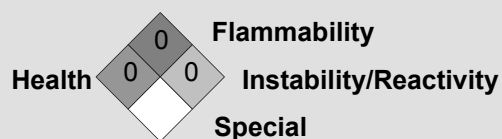
| | | |
|------------------|---|---|
| Health | * | 3 |
| Flammability | | 0 |
| Physical hazards | | 1 |
| | | |

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



Product AT USE DILUTION

| | | |
|------------------|--|---|
| Health | | 0 |
| Flammability | | 0 |
| Physical hazards | | 0 |
| | | |



Date of issue : 25 Mar 2013
Prepared by : Regulatory Affairs
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.