SAFETY DATA SHEET



Eco-Star Solar Brite

Section 1. Chemical product and company identification

Product name : Eco-Star Solar Brite

Recommended use and : Laundry detergent

restrictions

Use only for the purpose on the product label.

Product dilution information : Up to 11 oz/50 gal or 1.8 mL/L in water

Supplier's information : Ecolab Inc. Institutional Division

370 N. Wabasha Street St. Paul, MN 55102 1-800-352-5326

Code : 913136

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

Product AS SOLD

GHS Classification : CORROSIVE TO METALS - Category 1

SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 1

AQUATIC TOXICITY (ACUTE) - Category 2

GHS label elements

Signal word : Danger

Symbol :

Hazard statements: May be corrosive to metals.

Causes severe skin burns and eye damage.

Toxic to aquatic life.

Precautionary statements

Prevention: Wear protective gloves. Wear eye or face

protection. Wear protective clothing. Keep only in original container. Avoid release to the environment. Wash hands thoroughly after

handling.

Response : Absorb spillage to prevent material damage. IF

INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower. Wash contaminated clothing before reuse.

Product AT USE DILUTION

SKIN CORROSION/IRRITATION - Category

1

SERIOUS EYE DAMAGE/ EYE IRRITATION

- Category 1

Danger



Causes severe skin burns and eye damage.

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

hands thoroughly after handling.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash

contaminated clothing before reuse.

Eco-Star Solar Brite 25 Mar 2013

Section 2. Hazards identification

Immediately call a POISON CENTER or 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 physician.

Storage : Store in corrosive resistant container with a

resistant inner liner.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

Immediately call a POISON CENTER or 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 physician.

No other specific measures identified.

See section 13 for waste disposal

information.

None known.

Section 3. Composition/information on ingredients

Substance/mixture

Product AS SOLD

: Mixture

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM HYDROXIDE	23	1310-73-2
alcohols, c12-16, ethoxylated	5 - 20	68551-12-2
poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-hydroxy-	5 - 20	160875-66-1

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: Take off immediately all contaminated clothing.

Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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

position comfortable for breathing. Get medical

attention immediately.

Ingestion: Get medical attention immediately. Rinse mouth.

Do not induce vomiting.

Product AT USE DILUTION

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get

medical attention immediately.

Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention immediately.

Get medical attention immediately. Rinse

mouth. Do not induce vomiting.

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)

Eco-Star Solar Brite 25 Mar 2013

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing

media

: Use water spray, fog or foam.

Specific hazards arising from the chemical Hazardous thermal decomposition products

: 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.

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide 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. No action shall be taken involving any personal risk or without

suitable training.

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 spilled material and runoff with soil and surface waterways.
- : Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/ neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

Product AT USE DILUTION

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.

Avoid contact of spilled material and runoff with soil and surface waterways.

Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

Section 7. Handling and storage

Product AS SOLD

Handling

: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Storage

: Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 10 and 50°C

Product AT USE DILUTION

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Keep out of reach of children. Keep container tightly closed.

Eco-Star Solar Brite 25 Mar 2013

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
SODIUM HYDROXIDE	ACGIH TLV (United States, 3/2012). C: 2 mg/m³ OSHA PEL (United States, 6/2010). TWA: 2 mg/m³ 8 hours. NIOSH REL (United States, 6/2009). CEIL: 2 mg/m³

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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Personal protection

Eve protection

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

goggles.

Hand protection

: Use chemical-resistant, impervious gloves.

Skin protection

: Use synthetic apron, other protective equipment

as necessary to prevent skin contact.

Respiratory protection

Hygiene measures

: A respirator is not needed under normal and

intended conditions of product use.

Product AT USE DILUTION

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.

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

Use chemical-resistant, impervious gloves. Use synthetic apron, other protective equipment as necessary to prevent skin contact.

A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and chemical properties

Product AS SOLD

before reusing.

Physical state : Emulsion Color : Yellow Odor : Faint odor рΗ : 13 to 14 (100%)

Flash point : > 100°C

Product does not support combustion.

Explosion limits Flammability (solid,

: Not available. : Not available.

gas)

Melting point **Boiling point**

: Not available. : >100°C (>212°F) : Not available.

Evaporation rate (butyl acetate = 1)

: Not available. Vapor pressure Vapor density : Not available.

Relative density : 1.207 to 1.275 (Water = 1) **Product AT USE DILUTION**

Liquid. Colorless Odorless 11 to 12 > 100°C

: 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

Eco-Star Solar Brite 25 Mar 2013

Section 9. Physical and chemical properties

Solubility : Easily soluble in the following materials: cold

water and hot water.

Partition coefficient: : Not available.

n-octanol/water

Auto-ignition temperature

: Not available.

Decomposition

: Not available.

temperature

Odor threshold : Not available.

: Dynamic (room temperature): 2500 mPa·s (2500 Viscosity

Section 10. Stability and reactivity

Product AS SOLD

Stability : The product is stable.

Possibility of hazardous

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

reactions Conditions to avoid

: No specific data.

Materials to avoid

: Reactive or incompatible with the following materials: acids.

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

metals and moisture.

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 : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Inhalation : Adverse symptoms may include the following:

coughing

Respiratory tract irritation

: Adverse symptoms may include the following: Ingestion

stomach pains

Acute toxicity

Eve contact : Causes serious eye damage.

Skin contact : Causes severe burns.

Inhalation : May cause respiratory irritation.

Ingestion : May cause burns to mouth, throat and stomach.

Product AT USE DILUTION

Adverse symptoms may include the following:

pain watering redness

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Adverse symptoms may include the following:

coughing

Respiratory tract irritation

Adverse symptoms may include the following:

stomach pains

Causes serious eye damage.

Causes severe burns.

May cause respiratory irritation.

May cause burns to mouth, throat and

stomach.

Toxicity data

Product/ingredient name Result **Species** Dose Eco-Star Solar Brite 25 Mar 2013

Section 11. Toxicological information

poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-

alcohols, c12-16, ethoxylated LD50 Dermal Rabbit >2000 mg/kg

 LD50 Oral
 Rat
 1100 mg/kg

 LD50 Oral
 Rat
 >2000 mg/kg

w-hydroxy-

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** sodium hydroxide Acute EC50 40 mg/l 48 hours Daphnia alcohols, c12-16, ethoxylated Acute LC50 1.5 mg/l Fish 96 hours poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-Acute EC50 10 mg/l Daphnia 48 hours

hydroxy-

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

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.

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 UN1824

DOT Proper shipping nameSodium hydroxide solution

Class 8
Packing group II

IMO/IMDG

IMO/IMDG Classification UN1824

IMO/IMDG Proper shipping name SODIUM HYDROXIDE SOLUTION

Class 8
Packing group II

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

Page: 6/7

25 Mar 2013 Eco-Star Solar Brite

Section 14. Transport 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

Product name CAS number Concentration **SARA 313**

Form R - Reporting

requirements

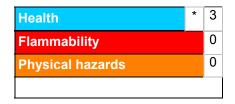
: No listed substance

California Prop. 65 : No listed substance

Section 16. Other information

Product AS SOLD

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



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



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.

