

Material Safety Data Sheet

STER-BAC



STER-BAC

23 April 201

1. Product and company identification

Trade name of product : STER-BAC
Product use : Sanitizer.

Product dilution information : Up to 2.5 oz/10gal or 2 mL/L in water

Supplier's information : Ecolab Inc. Food & Beverage Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-392-3392

Code : 900316
Date of issue : 23-April-2012
EPA Registration No. : 1677-43

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 : Liquid.
Emergency overview : DANGER!
CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.
HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Product AT USE DILUTION
Liquid.
CAUTION!
MAY CAUSE EYE IRRITATION.
Avoid contact with eyes. Wash thoroughly after handling.

Potential acute health effects

Product AS SOLD
Eyes : Corrosive to eyes.
Skin : Corrosive to the skin. Harmful if absorbed through the skin.
Inhalation : Moderately irritating to the respiratory system.
Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.

Product AT USE DILUTION
Slightly irritating to the eyes.
Slightly irritating to the skin.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

See toxicological information (Section 11)

3. Composition/information on ingredients

Product AS SOLD

| Name | CAS number | % by weight |
|--|------------|-------------|
| quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides | 68424-85-1 | 10.0 |
| ALCOHOL | 64-17-5 | 1 - 5 |

Product AT USE DILUTION

| Name | CAS number | % by weight |
|--|------------|-------------|
| quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides | 68424-85-1 | <1 |

3. Composition/information on ingredients

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 for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
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
Rinse with water for a few minutes.
Rinse with water for a few minutes.
No special measures required. Treat symptomatically.
Get medical attention if symptoms occur.

5. Fire-fighting measures

Product AS SOLD
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides
Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.
Dike area of fire to prevent runoff.
In a fire or if heated, a pressure increase will occur and the container may burst.
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.
Methods for cleaning up : 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 water rinse for final clean-up.

Product AT USE DILUTION
Use personal protective equipment as required.
Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Use a water rinse for final clean-up.

7. Handling and storage

Product AS SOLD

Handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, spray or mists. Keep container closed. 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

Avoid contact with eyes. Wash thoroughly after handling.

Keep out of reach of children. Store in a closed container.

10. Stability and reactivity

Product AS SOLD

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

8. Exposure controls/personal protection

Product AS SOLD

Engineering measures : 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.

Product AT USE DILUTION

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

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

Hands : Use chemical-resistant, impervious gloves.

Skin : Wear suitable protective clothing.

Respiratory : Avoid breathing vapors, spray or mists.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No special protection is required.

| Ingredient | Exposure limits |
|------------|---|
| ALCOHOL | ACGIH TLV (United States, 2/2010). STEL: 1000 ppm 15 minute(s). OSHA PEL (United States, 6/2010). TWA: 1900 mg/m ³ 8 hour(s). TWA: 1000 ppm 8 hour(s). |

9. Physical and chemical properties

Product AS SOLD

Physical state : Liquid.

Flash point : > 100°C
Product does not support combustion.

Color : Colorless to light yellow

Odor : Sweetish

pH : 7.5 [Conc. (% w/w): 100%]

Boiling/condensation point : >100°C (>212°F)

Relative density : 0.995

Dispersibility properties : Easily dispersible in the following materials: cold water and hot water.

Solubility : Easily soluble in the following materials: cold water and hot water.

Product AT USE DILUTION

Liquid.
> 100°C

Clear
Faint odor
7.6 to 7.9

11. Toxicological information**Potential acute health effects**

Product AS SOLD

Eyes : Corrosive to eyes.

Skin : Corrosive to the skin. Harmful if absorbed through the skin.

Inhalation : Moderately irritating to the respiratory system.

Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.

Product AT USE DILUTION

Slightly irritating to the eyes.

Slightly irritating to the skin.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Other adverse effects

Product AS SOLD

Target organs : Contains material which may cause damage to the following organs: upper respiratory tract, central nervous system (CNS).

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.

Product AT USE DILUTION

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

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.

Product AT USE DILUTION

Not intended for transport.

15. Regulatory information

Product AS SOLD
 HCS : Corrosive material
 Classification Target organ effects

Product AT USE DILUTION
 Not regulated.

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.

EPA Registration No. : 1677-43

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

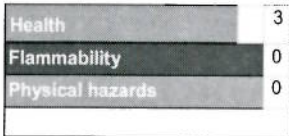
SARA 313 Product name CAS number Concentration

Form R - Reporting requirements : No listed substance

California Prop. 65 : No listed substance

16. Other information

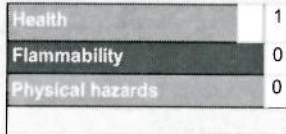
Product AS SOLD
 Hazardous Material Information System (U.S.A.) :



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



Product AT USE DILUTION



Date of issue : 23-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.