

STER-BAC

Section 1. Identification

Product name : STER-BAC
Other means of identification : -
Recommended use of the chemical : Sanitizer - Food contact surface

Product dilution information : Use up to 40 mL in 5 L of water

Supplier's details : Ecolab Ltd
2 Daniel Place, Te Rapa, Hamilton, New Zealand
Customer Service Phone +64 7 958 2319
Fax number +64 7 958 2361

Emergency telephone number : 0800 243 622 (0800 CHEMCALL)

Date of issue : 21-June-2011

Section 2. Hazards identification

Product AS SOLD
HSNO Classification : 6.1 - ACUTE TOXICITY: ORAL - Category E
6.3 - SKIN IRRITATION - Category B
6.4 - EYE IRRITATION - Category A (Irritant)

Product AT USE DILUTION

Not classified.

Product AS SOLD

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

This material is classified as a dangerous good according to criteria in New Zealand Standard 5433:2007 Transport of Dangerous Goods on Land.

GHS label elements

Product AS SOLD
Signal word : Warning
Hazard statements : May be harmful if swallowed.
Causes mild skin irritation.
Causes serious eye irritation.
Precautionary statements
Prevention : Wear eye or face protection.
Response : If skin irritation occurs: Get medical advice/attention. 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 advice/attention. Wash hands after handling. Call a POISON CENTER or doctor/physician if you feel unwell.
Storage : Not applicable.
Disposal : Not applicable.
Symbol :

**Product AT USE DILUTION**

No signal word.

No known significant effects or critical hazards.

Read label before use. Keep out of reach of children. If medical advice is needed: Have product container or label at hand.

Not applicable.

Not applicable.

Not applicable.

Section 3. Composition/information on ingredients

Product AS SOLD

Ingredient name	%	CAS number
quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	5 - 20	68424-85-1
ethanol	1 - 5	64-17-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Product AT USE DILUTION

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Section 4. First-aid measures

Description of necessary first aid measures

	Product AS SOLD	Product AT USE DILUTION
Inhalation	: If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention immediately.	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.	Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.
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.	In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation occurs. Wash clothing before reuse.
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.	In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
Notes to physician	: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable	: Use water spray, fog or foam.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special precautions for fire-fighters	: 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	Product AT USE DILUTION
Personal precautions, protective equipment and emergency procedures	: Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilt material.	Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.
Environmental precautions	: May be harmful to the environment if released in large quantities. Do not allow to enter drains or watercourses. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Methods and materials for containment and cleaning up		
Small spill:	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Precautions for safe handling	: Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Use only with adequate ventilation. Wash thoroughly after handling.	Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	: Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above the following temperature: 45°C	Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure controls/personal protection

Control parameters

Product AS SOLD

Occupational exposure limits

Ingredient name	Exposure limits
ethanol	NZ OSH (New Zealand, 1/2002). WES-TWA: 1880 mg/m ³ 8 hour(s). WES-TWA: 1000 ppm 8 hour(s).

Section 8. Exposure controls/personal protection

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Appropriate engineering controls	Product AS SOLD : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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.
Individual protection measures Respiratory protection : A respirator is not needed under normal and intended conditions of product use. Hand protection : Use chemical-resistant, impervious gloves. Eye protection : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles. Skin protection : Use synthetic apron, other protective equipment as necessary to prevent skin contact. 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.	
Product AT USE DILUTION Good general ventilation should be sufficient to control worker exposure to airborne contaminants. A respirator is not needed under normal and intended conditions of product use. 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.	

Section 9. Physical and chemical properties

Physical state	: Liquid.	Product AT USE DILUTION
Colour	: Blue.	Liquid.
Odour	: Faint odour	Colourless. [Light]
pH	: 10 to 11 (100%)	Odourless
Flash point	Product does not support combustion.	9 to 10.5
Boiling point	: >100°C	Product does not support combustion
Vapour pressure	: Not available.	
Vapour density	: Not available.	
Relative density	: 0.99 to 1.01	
Solubility	: Easily soluble in the following materials: cold water and hot water.	

Section 10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: No specific data.
Incompatible materials	: Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure

Product AS SOLD	
Inhalation	: No known significant effects or critical hazards.
Ingestion	: May be harmful if swallowed. Irritating to mouth, throat and stomach.
Skin contact	: Causes mild skin irritation.
Eye contact	: Causes serious eye irritation.

Product AT USE DILUTION

No known significant effects or critical hazards.
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Product AS SOLD

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	LD50 Dermal	Rabbit	3340 mg/kg	-
ethanol	LD50 Oral	Rat	426 mg/kg	-
	LC50 Inhalation Vapour	Rat	124700 mg/m3	4 hours
	LD50 Oral	Rat	7 g/kg	-

Potential chronic health effects

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	: No known significant effects or critical hazards.
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Product AT USE DILUTION

No known significant effects or critical hazards.

Product AS SOLD

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute LC50 >100 mg/L	Fish	96 hours
	Acute LC50 13000 mg/L	Fish	96 hours

Persistence/degradability

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc})	: Not available.
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Section 13. Disposal considerations

Product AS SOLD

Disposal methods	: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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Product AT USE DILUTION

The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Product AS SOLD

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.

Regulatory information	UN number	Proper shipping name	Classes	PG*	Additional information
New Zealand Class NZS 5433	Not regulated.	-	-	-	-
IMDG Class	Not regulated.	-	-	-	-

PG* : Packing group

Special Safety Measures and Conditions: During transport, avoid direct sunlight, container damage, corrosion, loading to ensure that all work will be done to ensure the prevention of collapse of cargo.

See shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

HSNO Approval Number : HSR002530

HSNO Group Standard : Cleaning Products (Subsidiary Hazard)
Group Standard 2006

HSNO Classification : 6.1 - ACUTE TOXICITY: ORAL - Category E
6.3 - SKIN IRRITATION - Category B
6.4 - EYE IRRITATION - Category A (Irritant)

New Zealand Inventory of Chemicals (NZIoC) : All components are listed or exempted.

Safety, health and environmental regulations specific for the product : Hazardous Substance Location trigger quantity : N/A
Approved Handler trigger quantity : N/A
Secondary containment trigger quantity : N/A
Signage trigger quantity : N/A

Emergency Response Plan trigger quantity: N/A

The trigger quantities above must take into account any other hazardous substance that is present at that location.

Product AT USE DILUTION

Not classified.

Section 16. Other information

History

Date of previous issue : No previous validation.

Version : 1

Prepared by : Regulatory Affairs

References : NZS 5433:2007 Transport of Dangerous Goods on Land
Land Transport (Dangerous Goods) Rule 45001:2005
Hazardous Substances Regulations 2001:

- Minimum Degrees of Hazard
- Classification
- Classes 1 to 5 Controls
- Classes 6, 8 and 9 Controls
- Packaging Regulations
- Identification Regulations
- Disposal Regulations
- Emergency Management

Health and Safety in Employment Regulations 1995

User Guide to the HSNO Thresholds and Classifications

OSH Workplace Exposure Standards January 2002

NZCIC Approved Code of Practice – Preparation of Safety Data Sheets

Signage for premises storing hazardous substances and dangerous goods

Indicates information that has changed from previously issued version.

Section 16. Other information

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.