# Star britte

# SAFETY DATA SHEET

## 1. Identification

Product identifier Starbrite Sea Safe Hull Cleaner

Other means of identification

Product code 89738

Recommended use Cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Star brite Inc.

Address 4041 SW 47th Avenue

Fort Lauderdale, FL 33314 US

**Telephone** General Information: (954) 587-6280

E-mail Not available.

Contact person Vincent Waclawek

Emergency phone number 24-Hour Emergency: CHEMTREC: (703) 527-3887

or (800) 424-9300

## 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 4Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Combustible liquid. Causes skin irritation. Causes serious eye irritation.

**Precautionary statement** 

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective

gloves/protective clothing/eye protection/face protection. Avoid breathing mist or vapor. Wash

thoroughly after handling. Avoid release to the environment.

**Response** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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. Immediately

call a poison center/doctor. Take off contaminated clothing and wash before reuse.

Storage Keep locked-up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Oxalic acid	144-62-7	8
Ethylene glycol n-butyl ether	111-76-2	4.5

## 4. First-aid measures

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

and shoes. Get medical attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention.

Causes skin and eye irritation. May cause respiratory tract irritation.

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Ingestion** Seek medical advice.

Most important

symptoms/effects, acute and

delayed

Treat symptomatically.

Indication of immediate medical attention and special treatment needed

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire-fighting equipment/instructions

Specific methods

None known.

Combustible liquid and vapor.

Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do it without risk.

Use water spray to cool unopened containers.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear protective clothing as described in Section 8 of this safety data sheet. Ensure adequate ventilation. Ventilate closed spaces before entering them. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike the spilled material, where this is possible. Collect spillage. Do not allow material to contaminate ground water system.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).

Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Never return spills to original containers for re-use. Following product recovery, flush area with water. This material and its container must be disposed of as hazardous waste. Clean up in accordance with all applicable regulations.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water.

# 7. Handling and storage

Precautions for safe handling

Keep away from heat, spark, open flames and other sources of ignition. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Wear personal protective equipment. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep locked-up. Keep container tightly closed and in a well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

## 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Ethylene glycol n-butyl ether (CAS 111-76-2)	PEL	240 mg/m3
		50 ppm

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Oxalic acid (CAS 144-62-7)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Values	<b>3</b>		
Components	Туре	Value	
Ethylene glycol n-butyl ether (CAS 111-76-2)	TWA	20 ppm	
Oxalic acid (CAS 144-62-7)	STEL	2 mg/m3	
	TWA	1 mg/m3	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
Ethylene glycol n-butyl ether (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
Oxalic acid (CAS 144-62-7)	STEL	2 mg/m3	
	TWA	1 mg/m3	

#### **Biological limit values**

## **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time	
Ethylene glycol n-butyl ether (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

#### Exposure guidelines

No exposure standards allocated.

US - California OELs: Skin designation

Ethylene glycol n-butyl ether (CAS 111-76-2)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Ethylene glycol n-butyl ether (CAS 111-76-2) Skin designation applies.

**US - Tennesse OELs: Skin designation** 

Ethylene glycol n-butyl ether (CAS 111-76-2)

Can be absorbed through the skin.

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Ethylene glycol n-butyl ether (CAS 111-76-2)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Ethylene glycol n-butyl ether (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering

controls

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Provide adequate ventilation. General ventilation normally adequate. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear suitable protective clothing. Anti-static and flame-retardant protective clothing is

recommended. Wear chemical protective equipment that is specifically recommended by the

manufacturer.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

Thermal hazards Not available.

General hygiene considerations

Always observe national occupational health and hygiene requirements including requirements for medical surveillance.

## 9. Physical and chemical properties

Appearance Clear liquid.

Physical stateLiquid.FormLiquid.ColorClear.

Odor Sweet. Pleasant.
Odor threshold Not available.
pH 1 Approx.
Melting point/freezing point Not available.
Initial boiling point and boiling 212 °F (100 °C)

range

Flash point 153.9 °F (67.7 °C)
Evaporation rate Similar to water.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not available.

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.01 @ 20 °C

Solubility(ies)

Solubility (water) Completely soluble.

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Percent volatile Not available.

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

**Conditions to avoid** Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.

Incompatible materialsStrong oxidizing agents. Chlorites and hypochlorites.Hazardous decompositionNo hazardous decomposition products are known.

products

## 11. Toxicological information

#### Information on likely routes of exposure

Ingestion No harmful effects expected in amounts likely to be ingested by accident.

**Inhalation** May cause respiratory tract irritation.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Irritant effects.

Information on toxicological effects

**Acute toxicity** Not classified.

Components **Species Test Results** 

Ethylene glycol n-butyl ether (CAS 111-76-2)

Acute

Dermal

LD50 Rabbit 400 mg/kg

Inhalation

LC50 Mouse 700 mg/l, 7 Hours

> Rat 450 mg/l, 4 Hours

Oral

LD50 Guinea pig 1.2 g/kg

> Mouse 1.2 g/kg Rabbit 0.32 g/kg 560 mg/kg Rat

Other

LD50 Mouse 1130 mg/kg

> Rabbit 280 mg/kg Rat 340 mg/kg

Oxalic acid (CAS 144-62-7)

**Acute** 

Oral

LC50 Rat 375 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not classified. Not classified. Skin sensitization Germ cell mutagenicity Not classified.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylene glycol n-butyl ether (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Not classified. Specific target organ toxicity -Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not classified. **Aspiration hazard** 

12. Ecological information

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

Components **Test Results Species** 

Ethylene glycol n-butyl ether (CAS 111-76-2)

Aquatic

Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours

Starbrite Sea Safe Hull Cleaner 5/8

919311-CC Version #: 01 Revision date: -Issue date: 15-May-2014 Oxalic acid (CAS 144-62-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 125 - 150 mg/l, 48 hours

Persistence and degradability Not established.

Bioaccumulative potential Not established.

Partition coefficient processes (log Ko

Partition coefficient n-octanol / water (log Kow)

Ethylene glycol n-butyl ether (CAS 111-76-2) 0.83

Mobility in soil Not established.

Other adverse effects Not established.

# 13. Disposal considerations

**Disposal instructions**Dispose of contents/container in accordance with local/regional/national/international regulations. **Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose in accordance with applicable federal, state, and local regulations.

**Contaminated packaging** Offer rinsed packaging material to local recycling facilities.

## 14. Transport information

DOT

UN number NA1993

UN proper shipping name Transport hazard class(es) Combustible liquids, n.o.s. (Ethylene glycol n-butyl ether)

Class Combustible Liquid

Subsidiary risk - Packing group |||

Special precautions for user Not available.

Special provisions B1, B52, IB3, T4, TP1, TP29

Packaging exceptions 150
Packaging non bulk 203
Packaging bulk 242

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

**US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Oxalic acid (CAS 144-62-7) 1.0 % One-Time Export Notification only.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Ethylene glycol n-butyl ether (CAS 111-76-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Ethylene glycol n-butyl ether	111-76-2	4.5	

## Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Yes

Not regulated

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

**US state regulations**This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

#### **US. Massachusetts RTK - Substance List**

Ethylene glycol n-butyl ether (CAS 111-76-2)

Oxalic acid (CAS 144-62-7)

## US. New Jersey Worker and Community Right-to-Know Act

Ethylene glycol n-butyl ether (CAS 111-76-2)

Oxalic acid (CAS 144-62-7)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Inventory name

Ethylene glycol n-butyl ether (CAS 111-76-2)

Oxalic acid (CAS 144-62-7)

#### **US. Rhode Island RTK**

Ethylene glycol n-butyl ether (CAS 111-76-2)

#### **US. California Proposition 65**

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

#### **International Inventories**

Country(s) or region

		, (J
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

Issue date 15-May-2014

Revision date - 01

United States & Puerto Rico

Starbrite Sea Safe Hull Cleaner SDS US

919311-CC Version #: 01 Revision date: - Issue date: 15-May-2014

Yes

On inventory (yes/no)\*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## **NFPA Ratings**



References

**ACGIH** 

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer

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