



MATERIAL SAFETY DATA SHEET

1 IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY


Product name : Star brite Citrus Degreaser - 94222, 94200N
Application : Boat maintenance. Cleaner.

Manufacturer : Star brite Distributing, Inc.
Address : 4041 S. W. 47 Avenue
Ft. Lauderdale, FL 33314, USA
Telephone : +001- 954-587-6280

Distributor : Star brite Europe Inc.
Contact : Jean Paul Kitzinger

Telephone : +33- 472- 57 01 33
Fax : +33- 472- 57 04 93

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

 : 001-703-527-3887 - CHEMTREC

2 COMPOSITION / INFORMATION ON CONSTITUENTS

Product description : Preparation.

Information on hazardous substances:

EC-name	Concentration (w/w) (%)	CAS-number	EC-number	Symbols	R-phrases
Alcohols, C9-11 ethoxylated (6 EO)	1 - 5	68439-46-3	Polymer	Xn	22-41
2-Butoxyethanol	1 - 5	111-76-2	203-905-0	Xn	20/21/22-36/38
Limonene	1 - 5	5989-27-5	227-813-5	Xi, N	10-38-43-50/53
Tetrasodium ethylenediaminetetraacetate	1 - 5	64-02-8	200-573-9	Xn	22-36-52/53

Reference is made to chapter 16 for full text of each relevant R phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

3 HAZARD INFORMATION

Classification : Sensitising, irritant and dangerous to the environment.

Human health hazards : Irritating to eyes. May cause sensitisation by skin contact. See also section 11.

Physical/chemical hazards : Not classified as dangerous on the basis of statutory EC-Directives.

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See also section 12.

Other information : Keep out of reach of children. If swallowed, seek medical advice immediately and show this container or label. Avoid contact with skin. Wear suitable gloves.

4 FIRST AID MEASURES

Effects and symptoms

Inhalation : May cause headache, dizziness and a feeling of sickness.
Skin contact : May cause redness, irritation and sensitisation. May cause dry skin.
Eye contact : Irritant. May cause redness and pain.
Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

First aid measures

Inhalation : Move victim into fresh air. Seek medical advice if victim feels unwell.

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- Skin contact : Immediately take off contaminated clothing. Wash off skin with plenty of water before product dries up. Consult a doctor if irritation persists.
- Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor.
- Ingestion : Do not induce vomiting. Rinse the mouth, drink 1 glass of water at most. Give condensed milk or a knob of butter. Never give anything by mouth to an unconscious person. Consult a doctor.

5 FIRE FIGHTING MEASURES

- Extinguishing media
- Suitable : CO₂, foam, water fog or dry chemical.
- Not suitable : None known
- Special exposure hazards : None known
- Hazardous thermal (de)composition products : Carbon monoxide may be evolved if incomplete combustion occurs.
- Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. See also section 8.
- Environmental precautions : Avoid release of product into sewers, surface water and/or ground water.
- Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water.

7 HANDLING AND STORAGE

- Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Avoid contact with eyes and skin. Do not breathe vapours.
- Storage : Keep frost-free, in a cool (< 35°), dry and well-ventilated place.
- Recommended packaging : Keep only in the original container.
- Use : Use only as directed.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

- Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.
- Hygienic measures : Do not eat, drink or smoke during use.
- Occupational exposure limits : Occupational exposure limits have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name		EC	UK		
2-Butoxyethanol	TWA 8 hour	98	123		
	STEL 15 min	246	-		

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



- Body protection : Use of specific protective industrial clothing is not required under normal conditions of use. See also under additional information.
- Respiratory protection : Take care of sufficient ventilation. Wear a gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140, in case of large scale exposure
- Hand protection : Wear suitable gloves. See also under additional information.
- Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

Additional information:

- Protective clothing : In case of large scale exposure wear neoprene protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345.
- Safety gloves : Wear neoprene gloves. Indication of permeation breakthrough time: not known

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Colour : Orange
- Odour : Perfumed
- pH : 11.8
- Solubility in water : Not known
- in fat : Not known
- Partition coefficient (n-octanol/water) : Not applicable
- Flash point : Not applicable (PMcc)
- Auto ignition temperature : Not applicable
- Boiling point/ boiling range : ± 100°C
- Melting point/ melting range : 0°C
- Explosive properties : Not applicable
- Oxidizing properties : Not applicable
- Decomposition temperature : Not applicable
- Viscosity (40°C) : Not known
- Vapour pressure (20°C) : Not known
- Relative density (20°C) : ± 1.0 kg/l
- Evaporation rate : < 1 (n-butyl acetate = 1)

10 STABILITY AND REACTIVITY

- Stability : Stable under normal conditions.
- Conditions to avoid : See section 7.
- Materials to avoid : Keep away from oxidizing substances.
- Hazardous decomposition products : None known.

11 TOXICOLOGICAL INFORMATION

- No toxicological research has been carried out on this product.
- Inhalation : Irritation of respiratory airways possible when vapour concentrations exceed threshold limits.
- Skin contact : Irritant. May cause sensitisation by skin contact. Prolonged contact may dry out and degrease the skin.
- Eye contact : Irritating to eyes.



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Ingestion : Ingestion may cause vomiting, nausea and diarrhoea.

Toxicological information:

Chemical name	Toxicity (mg/kg)	Irritation	Sensitisation
Alcohols, C9-11, ethoxylated (6EO)	LD ₅₀ : > 500 (rat, oral) LD ₅₀ : > 2000 (rabbit, dermal)	Slight irritating (skin)	Not sensitising
2-Butoxyethanol	LC ₅₀ : > 5000 (inh.) LD ₅₀ : 470 (oral)	Strong irritating (eyes) Irritating (rabbit, eye) Irritating (dermal, guinea pig)	Not sensitising
Limonene ((R)-p-mentha-1,8-diene)	LD ₅₀ : 4400 (rat, oral) LD ₅₀ : > 2000 (rabbit, dermal)	Irritating (skin)	Sensitising (skin)
Tetrasodium ethylenediaminetetra acetate	LD ₅₀ : 1000 (rat, oral)	Irritant (eyes)	Not sensitising (guinea pig)

12 ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms.

Mobility : Spilled product can penetrate into the ground and get into the ground water and surface water.

Persistence – degradability : No data available on biodegradation. May cause long-term adverse effects in the aquatic environment.

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.

Bio accumulative potential : No specific data available.

Ecotoxicological information:

Chemical name	Toxicity (mg/l)	Log P(ow)	BCF	Degradability
Limonene	LC ₅₀ : < 1	4.2	-	-
Tetrasodium ethylenediaminetetraacetate	LC ₅₀ : > 100 (fish, 96 h) EC ₅₀ : > 500 (daphnia, 24 h)			

13 DISPOSAL CONSIDERATIONS

Product residues : Do not dispose empty pack with regular household waste. Treat product residues and non-empty pack as hazardous waste.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Comment : Attention is drawn to the possible existence of mandatory and regulatory communal, national or local requirements governing disposal of waste.

14 TRANSPORT

UN number : None

Transport name : Not regulated.

Land - Road/Railway
ADR/RID class : This product is not classified according to ADR/RID.

Water
IMDG class : This product is not classified according to IMDG.

Marine pollutant : No

Air
IATA class : This product is not classified according to IATA.

15 REGULATORY INFORMATION

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Community regulations : EC classification (67/548/EEC - 99/45/EC) and other regulations

Hazard symbols : Xi, irritant



R- and S-phrases : R36 Irritating to eyes.
 R43 May cause sensitisation by skin contact.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 S2 Keep out of reach of children.
 S24 Avoid contact with skin.
 S37 Wear suitable gloves.
 S46 If swallowed, seek medical advice immediately and show this container or label.

Other information : The packaging shall carry the text:
 Contains: Limonene.

Ingredient declaration according to Regulation 648/2004:

Contains:	Concentration (w/w) (%)
Anionic surfactants	< 5
Non-ionic surfactants	< 5
EDTA and salts thereof	< 5
DMDM Hydantoin, limonene	

16 OTHER INFORMATION

The information in this safety data sheet is compiled in compliance with Directive 2001/58/EC dated 27 July 2001 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product.

This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of R-phrases mentioned in section 2:

R10 Flammable.
 R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 R22 Harmful if swallowed.
 R36 Irritating to eyes.
 R36/38 Irritating to eyes and skin.
 R38 Irritating to skin.
 R41 Risk of serious damage to eyes.
 R43 May cause sensitisation by skin contact.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

History

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