



## MATERIAL SAFETY DATA SHEET

### 1 IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name : Star brite Rust Stain Remover-89222DGP, 89222F, 89222NP, 89222GF, 89222GT,  
Application : Boat maintenance. Cleaner. 89222IF, 89222LM, 89222RP, 89222SN, 89222SP

Manufacturer : Star brite Distributing, Inc.  
Address : 4041 S. W. 47 Avenue  
Ft. Lauderdale, FL 33314  
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
Oxalic acid	5 – 10	144-62-7	205-634-3	Xn	21/22
Benzenesulfonic acid, C10-16-alkyl derivs.	1 – 5	68584-22-5	271-528-9	C	22-35
2-Butoxyethanol	1 – 5	111-76-2	203-905-0	Xn	20/21/22-36/38

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 : Irritant.

Human health hazards : Irritating to eyes and skin.

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

Environmental hazards : Not classified as dangerous on the basis of statutory EC-Directives. See also section 12.

Other information : Keep out of reach of children. If swallowed, seek medical advice immediately and show this container or label. Do not breathe spray. Use only in well ventilated areas.

### 4 FIRST AID MEASURES \*

Effects and symptoms

Inhalation : May cause headache, dizziness and a feeling of sickness. May cause stinging to respiratory airways and cause coughing.

Skin contact : Irritant. May cause dry skin and redness.

Eye contact : Irritant. May cause redness and pain.

Ingestion : May cause a feeling of sickness, vomiting, stomachache and diarrhoea.

First aid measures

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- Inhalation : Move victim into fresh air. Seek medical advice if victim feels unwell.  
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 and give water. Do not give milk. Never give anything by mouth to an unconscious person. Consult a doctor immediately.

### 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 : Carbon monoxide may be evolved if incomplete combustion occurs.  
(de)composition products  
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. Keep away from sources of ignition. See also section 8.  
Environmental precautions : Avoid release of product into sewers and surface water and/or ground water. Large scale discharge causing a very low pH may impair the biological system in sewage plants. Inform the official bodies if necessary.  
Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Carefully neutralise residues with soda. Collect neutralized product in containers and dispose as chemical waste. Wash away remainder with plenty of water and soap.

### 7 HANDLING AND STORAGE \*

- Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.  
Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Do not breathe vapours and/or spray.  
Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C) separated from oxidizing substances.  
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 havenot been established for this product.

Workplace exposure limits (mg/m<sup>3</sup>):

Chemical name		EC	UK		
2-Butoxyethanol	TWA 8 hour	98	123		
	STEL 15 min	246	-		
Oxalic acid	TWA 8 hour	1	-		
	STEL 15 min	2	-		



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### 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 : Not required under normal conditions of use. See also under additional information.
- Respiratory protection : Take care of sufficient ventilation. Wear a gas filter type PB2 (grey), class II or higher on e.g. a facemask in accordance with EN 140, in case of large scale exposure.
- Hand protection : Not required under normal conditions of use. 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 PVC protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345.
- Safety gloves : Wear PVC gloves in case of frequent or prolonged use and in case of large scale exposure. Indication of permeation breakthrough time: non permeable (oxalic acid), not known (benzene sulphonic acid)

## 9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Colour : Clear, pale yellow
- Odour : Characteristic
- pH : 1
- Solubility in water : Soluble
- in fat : Not known
- Partition coefficient (n-octanol/water) : Not known
- Flash point :  $\pm 67^{\circ}\text{C}$  (PMcc)
- Auto ignition temperature : Not applicable
- Boiling point/ boiling range :  $\pm 100^{\circ}\text{C}$
- Melting point/ melting range :  $\pm 0^{\circ}\text{C}$
- Explosive properties : Not applicable
- Oxidizing properties : Not applicable
- Decomposition temperature : Not applicable
- Viscosity (25°C) : Not known
- Vapour pressure (20°C) : Not known
- Relative density (20°C) :  $\pm 1.0 \text{ kg/l}$
- 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 and alkalines.
- Hazardous decomposition products : Not 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. Spray may cause irritation to respiratory airways and coughing.
- Skin contact : Irritating to skin. Prolonged contact may dry out and degrease the skin.

Eye contact : Irritating to eyes.  
 Ingestion : Ingestion may cause vomiting, nausea and diarrhoea.

**Toxicological information:**

Chemical name	Toxicity (mg/kg or mg/m3)	Irritation	Sensitization
Benzenesulfonic acids C10-16-alkyl derives.	LD <sub>50</sub> : 1350 (rat, oral) LD <sub>50</sub> : 530 (rat, dermal)	Corrosive (rabbit, skin) Corrosive (rabbit, eyes)	Not sensitising (guinea pig, skin)
2-Butoxyethanol	LD <sub>50</sub> : 470 (oral)	Irritating (rabbit, eye) Irritating (dermal, guinea pig)	Not sensitising

**12 ECOLOGICAL INFORMATION**

No ecotoxicological research has been carried out on this product.  
 Ecotoxicity : No ecotoxicological information available.  
 Mobility : Spilled product can penetrate into the ground and get into the ground water and surface water.  
 Persistence – degradability : Data on the biodegradation of this product are not available.  
 Bio accumulative potential : No specific information known.

**13 DISPOSAL CONSIDERATIONS**

Product residues : Dispose empty pack with regular household waste. Treat product residues and non-empty pack as hazardous waste. 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** \*

Community regulations : EC classification (67/548/EEC - 99/45/EC) and other regulations  
 Hazard symbols : Xi, irritant





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R- and S-phrases : R36/38 Irritating to eyes and skin.  
: S2 Keep out of reach of children.  
S23 Do not breathe spray.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
S51 Use only in well ventilated areas.

Other information : Not applicable.

<b>16 OTHER INFORMATION</b>
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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:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R21/22 Harmful in contact with skin and if swallowed.  
R22 Harmful if swallowed.  
R35 Causes severe burns.  
R36/38 Irritating to eyes and skin.

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### History

Date of first issue : 14-06-2005  
Date of second issue : 18-07-2005  
Date of third issue (dco) : 01-08-2009

Herewith all previous issues are expired.