



MATERIAL SAFETY DATA SHEET

1 IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name : Star brite -50 RV Anti Freeze - 31400R,314G55, 31400RE
Application : Boat maintenance. Coolant

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
Propane-1,2-diol	20 - 30	57-55-6	200-338-0	---	---

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 : Not classified as dangerous according to statutory EC-Directives.

Human health hazards : Low hazard for usual industrial or commercial handling.

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

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.

4 FIRST AID MEASURES

Effects and symptoms

Inhalation : May cause headache, dizziness and a feeling of sickness.
Skin contact : May cause dry skin.
Eye contact : May cause stinging of eyes and redness.
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.
Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap 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 if irritation persists.
Ingestion : Do not induce vomiting. Rinse the mouth and give water. Consult a doctor if victim feels unwell.

Product name : Star brite -50 RV Anti Freeze
Date of issue : 06-11-2005 Replaces issue dated:---

Page 1 of 4
INFO CARE MSDS



MATERIAL SAFETY DATA SHEET

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 and soap.

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		
Propane-1,2-diol	TWA 8 hour	-	474 (vapour and particles) 10 (particles)		
	STEL 15 min	-	-		

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.
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 : Under normal conditions of use specific gloves are not required.
Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

Product name : Star brite -50 RV Anti Freeze
Date of issue : 06-11-2005 Replaces issue dated:---

Page 2 of 4
INFO CARE MSDS



MATERIAL SAFETY DATA SHEET

Appearance	: Liquid	
Colour	: Coloured	
Odour	: Characteristic	
pH	: 7	
Solubility in water	: Soluble	
in fat	: Not known	
Partition coefficient (n-octanol/water)	: Not known	
Flash point	: Not applicable°C	(PMcc)
Auto ignition temperature	: Not applicable	
Boiling point/ boiling range	: 100°C	
Melting point/ melting range	: ± -50°C	
Explosive properties	: Not known	Lower explosion limit: 2.6% (Propane-1,2-diol) Upper explosion limit: 12.6% (Propane-1,2-diol)
Oxidizing properties	: Not applicable	
Decomposition temperature	: Not applicable	
Viscosity (25°C)	: Not known	
Vapour pressure (20°C)	: ± 22 mm Hg	
Relative density (20°C)	: ± 1.1 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	: Stinging of respiratory airways possible when vapour concentrations exceed threshold limits.
Skin contact	: Slight irritation possible. Prolonged contact may dry out and defat the skin.
Eye contact	: Slight irritation possible.
Ingestion	: Ingestion may cause vomiting, nausea and diarrhoea.

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	: Do not dispose empty pack with regular household waste. Treat product residues and non-empty pack as hazardous waste.
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MATERIAL SAFETY DATA SHEET

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

Community regulations : EC Classification (67/548/EEC - 99/45/EC) and other relevant regulations.
This product need not be classified under statutory EC-regulations.

Hazard symbols : None.

R- and S-phrases : None.

Other information : Not applicable.

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:

Not applicable.

History

Date of first issue : 06-11-2005

Product name : Star brite -50 RV Anti Freeze
Date of issue : 06-11-2005 Replaces issue dated:---

Page 4 of 4
INFO CARE MSDS