

**SAFETY DATA SHEET  
BLUE STAR ANTIFREEZE****1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

PRODUCT NAME BLUE STAR ANTIFREEZE  
PRODUCT NO. BSA001, BSA199, SFD127, BSA006, BSA002, BSA005, BSA025, BSA205, NBS001, NBS002, NBS005  
INTERNAL ID B  
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**2 HAZARDS IDENTIFICATION**

Harmful if swallowed.

CLASSIFICATION Xn;R22.

**ENVIRONMENT**

The product contains a substance which may cause long term adverse effects in the aquatic environment.

**HUMAN HEALTH**

See section 11 for additional information on health hazards.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
ETHANEDIOL	203-473-3	107-21-1	60-100%	Xn;R22

The Full Text for all R-Phrases are Displayed in Section 16

**COMPOSITION COMMENTS**

The Data Shown is in accordance with the latest EC Directives.

**4 FIRST-AID MEASURES****GENERAL INFORMATION**

Remove affected person from source of contamination. Get medical attention if any discomfort continues.

**INHALATION**

Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring these instructions.

**INGESTION**

Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions.

**SKIN CONTACT**

Remove affected person from source of contamination. Remove contaminated clothing and flush with plenty of water until pain disappears. If discomfort persists transport to hospital and bring these instructions.

**EYE CONTACT**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

**5 FIRE-FIGHTING MEASURES**

**BLUE STAR ANTIFREEZE****EXTINGUISHING MEDIA**

Use fire-extinguishing media appropriate for surrounding materials.

**SPECIAL FIRE FIGHTING PROCEDURES**

No specific fire fighting procedure given.

**PROTECTIVE MEASURES IN FIRE**

Leave danger zone immediately.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

**ENVIRONMENTAL PRECAUTIONS**

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

**SPILL CLEAN UP METHODS**

For waste disposal, see section 13. When dealing with a spillage, please consult the section relating to suitable protective measures. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb spillage with non-combustible, absorbent material. Contact Health and Safety department on 6147 or 6695 for further assistance.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Read and follow manufacturer's recommendations. Always remove grease with soap and water or skin cleaning agent, never use organic solvents. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product.

**STORAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
ETHANEDIOL	WEL		10 mg/m3(Sk)		104 mg/m3(Sk)	

WEL = Workplace Exposure Limit.

**PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

**RESPIRATORY EQUIPMENT**

Wear suitable respiratory protection.

**HAND PROTECTION**

Protective gloves and goggles must be used if there is a risk of direct contact or splash.

**EYE PROTECTION**

Wear tight-fitting goggles or face shield.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

**HYGIENE MEASURES**

Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.

**BLUE STAR ANTIFREEZE****SKIN PROTECTION**

Wear apron or protective clothing in case of contact.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid		
COLOUR	Blue		
ODOUR	Odourless		
SOLUBILITY	Miscible with Acetone Miscible with water.		
BOILING POINT (°C)	165°C 760 mm Hg	MELTING POINT (°C)	-12°C
RELATIVE DENSITY	1.13 20°C	VAPOUR DENSITY (air=1)	2.14
VAPOUR PRESSURE	0.05 kPa 20°C	pH-VALUE, DILUTED SOLUTION	6-7.5 100g/l
VISCOSITY	21 mPas 20	FLASH POINT (°C)	111 CC (Closed cup).
AUTO IGNITION TEMPERATURE (°C)	400°C	FLAMMABILITY LIMIT - LOWER(%)	3.2
FLAMMABILITY LIMIT - UPPER(%)	15.3	SOLUBILITY VALUE (g/100g H2O@20°C)	100

**10 STABILITY AND REACTIVITY****STABILITY**

No particular stability concerns.

**MATERIALS TO AVOID**

Acids, oxidising.

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50	4700 mg/kg (oral rat)
TOXIC DOSE 2 - LD 50	5010 mg/kg (ipr-mouse)

**HEALTH WARNINGS**

This chemical can be hazardous when inhaled and/or touched.

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

LC 50, 96 Hrs, FISH mg/l	51000
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**13 DISPOSAL CONSIDERATIONS****GENERAL INFORMATION**

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Absorb in earth or dry sand, dispose in licensed hazardous waste.

**14 TRANSPORT INFORMATION**

GENERAL	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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**15 REGULATORY INFORMATION****LABELLING**

Harmful

**BLUE STAR ANTIFREEZE**

CONTAINS ETHANEDIOL

## RISK PHRASES

R22 Harmful if swallowed.

## SAFETY PHRASES

S2 Keep out of the reach of children

S13 Keep away from food, drink and animal feeding stuffs.

S46 If swallowed, seek medical advice immediately and show this container or label.

S56 Dispose of this material and its container to hazardous or special waste collection point.

S24/25 Avoid contact with skin and eyes.

## UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information &amp; Packaging) Regulations.

## EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC.

**16 OTHER INFORMATION**

## GENERAL INFORMATION

Only trained personnel should use this material.

## REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

## ISSUED BY

HS&amp;E Manager.

REVISION DATE 02/07/2008

REV. NO./REPL. SDS GENERATED 2

## RISK PHRASES IN FULL

R22 Harmful if swallowed.

## DISCLAIMER

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.