

SAFETY DATA SHEET

SILVERHOOK ANTIFREEZE/COOLANT

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME ANTIFREEZE
PRODUCT NO. SHAx
SYNONYMS, TRADE NAMES Antifreeze|Coolant
 Antifreeze/Coolant with Bitrex
APPLICATION Automotive Industry.
SUPPLIER Silverhook Ltd.
 Unit 14, bates Road
 Harold Wood
 Essex, England
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 +44(0)1708 340333
 +44(0)1708 340654
EMERGENCY TELEPHONE +44(0) 1708 335553

2 HAZARDS IDENTIFICATION

Harmful if swallowed.

CLASSIFICATION Xn;R22.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ETHANEDIOL	203-473-3	107-21-1	85-99%	Xn;R22

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

COMPOSITION COMMENTS

Bitrex [Denatonium benzoate CAS 3734-33-6] may have been added in small quantities by customer request.

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure.

Place unconscious person on the side in the recovery position and ensure breathing

Get medical attention.

INGESTION

DO NOT INDUCE VOMITING!

When risk of unconsciousness, place and transport the victim in secured side position.

Drink plenty of water.

Do not give victim anything to drink if they are unconscious.

Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothing.

Wash the skin immediately with soap and water.

Get medical attention if any discomfort continues.

SILVERHOOK ANTIFREEZE/COOLANT

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids.

Make sure to remove any contact lenses from the eyes before rinsing.

Continue to rinse for at least 15 minutes.

Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Stop flow of material to fire.

Fire can be extinguished using:

Water fog or mist.

Alcohol resistant foam.

Carbon dioxide (CO₂).

Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours.

Use water to keep fire exposed containers cool and disperse vapours.

Keep run-off water out of sewers and water sources. Dike for water control.

6 ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS

Protect drains by covering to avoid any spillage entering the drainage system.

SPILL CLEAN UP METHODS

Stop leak if possible without risk.

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

Wear necessary protective equipment.

Absorb in vermiculite, dry sand or earth and place into containers.

Disposal should be carried out in accordance with the Hazardous Waste Regulations. If any liquid enters the drainage system or watercourse inform the local authorities, Fire Brigade and Environment Agency

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Do not use in confined spaces without adequate ventilation and/or respirator.

Eliminate all sources of ignition.

Keep away from heat, sparks and open flame.

Avoid inhalation of vapours.

Avoid acids, moisture, and combustible materials.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place.

Keep away from heat, sparks and open flame.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m ³	ST - ppm	ST - mg/m ³
ETHANEDIOL	WEL		52 mg/m ³ (Sk)		104 mg/m ³ (Sk)
ANTIFREEZE	WEL	60 mg/m ³		125 mg/m ³	

SILVERHOOK ANTIFREEZE/COOLANT

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Must not be handled in confined space without sufficient ventilation.

HAND PROTECTION

Chemical resistant gloves required for prolonged or repeated contact.

Use protective gloves made of:

Impermeable material.

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURES

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

Wash promptly with soap & water if skin becomes contaminated.

DO NOT SMOKE IN WORK AREA!

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid Hygroscopic Viscous		
COLOUR	Blue		
ODOUR	Odourless		
SOLUBILITY	Miscible with water. Miscible with Acetone Alcohol		
BOILING POINT (°C)	165 760 mm Hg	MELTING POINT (°C)	-12
RELATIVE DENSITY	1.13 @ 20 °c	VAPOUR DENSITY (air=1)	2.14
VAPOUR PRESSURE	0.05 kPa @ 20 °c	VISCOSITY	21 cps @ 20 °c
FLASH POINT (°C)	111 CC (Closed cup).	AUTO IGNITION TEMPERATURE (°C)	400
FLAMMABILITY LIMIT - LOWER(%)	3.2		

10 STABILITY AND REACTIVITY

STABILITY

No particular stability concerns. Avoid: Heat, sparks, flames. Moisture.

MATERIALS TO AVOID

Acids, oxidising. Strong oxidising substances. Sulphuric Acid, Oleum, Phosphorous Pentasulphide, Chlorosulphonic acid

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

Toxicological information on major component only. As Ethanediol

INGESTION

Harmful if swallowed.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

SILVERHOOK ANTIFREEZE/COOLANT

DISPOSAL METHODS

This material must be disposed of via an Authorised Waste/Disposal Company in accordance with Local and or National Waste Disposal Regulations.

WASTE CLASS

Waste Code: 07 01 04 Waste code 13.02.05

14 TRANSPORT INFORMATION

SEA TRANSPORT NOTES	Marpol 73/78 IBC Code Chapter 17: proper shipping name - ethylene glycol		
UN NO. ROAD	None	UK ROAD PACK GR.	None
ADR CLASS	Not classified for transportation.	ADR PACK GROUP	None
HAZARD NO. (ADR)	Not relevant	CEFIC TEC(R) NO.	None
IMDG CLASS	None	EMS	None
MARINE POLLUTANT	N/A.	AIR CLASS	None

15 REGULATORY INFORMATION

LABELLING



Harmful

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.
 S24/25 Avoid contact with skin and eyes.
 S56 Dispose of this material and its container to hazardous or special waste collection point.

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988.

Health and Safety at Work Act 1974.

The Chemical (Hazard Information and Packaging for Supply Regulations) 1993 amended & 2002.

Health and Safety (First Aid) Regulations 1981.

CDG Road, The Classification, Packaging and Labelling Regulations 1996.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

SILVERHOOK ANTIFREEZE/COOLANT

16 OTHER INFORMATION

INFORMATION SOURCES

Dangerous Properties of Industrial Chemicals, 7. ed., Sax & Lewis, 1988. Fire and Related Properties of Industrial Chemicals, Fire Protection Association.

REVISION COMMENTS Added Sea Transport Notes in Section 14

ISSUED BY Technical Team

REVISION DATE 13/12/07

S.D.S. STATUS Approved.

DATE 14/12/07

RISK PHRASES IN FULL R22 Harmful if swallowed.

DISCLAIMER

The information in this document has been compiled on the basis of the best available knowledge in accordance with the requirements of the Chemical Hazards, Information and Packaging regulations 1994 (as amended 1999). It does not imply that the information is complete or accurate in all cases. It is the user's responsibility to satisfy themselves as to the application of the information and/or the recommendations given for their own use.