

SAFETY DATA SHEET

Product Name:	BARS LEAKS	SDS Reference	
Version No. 2	Previous issue date 12-03-2012	Revision date	25-08-2015

Comment [K1]:

Comment [K2R1]:

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1 Product identifier	Bars Leaks Bulk Liquid Mix
1.2 Use (s)	For stopping radiator and cooling system leaks; inhibiting rust and corrosion.
1.3 SDS Supplier	Winplus Europe Limited The Officers' Mess, Royston Road, Duxford, Cambs, UK CB22 4QH Telephone +44 (0)1223 919711 Competent Person E-mail: customerservice@winplus-europe.com
1.4 Emergency Telephone	01223 919711 (UK office hours, 09.00-17.00)

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE PRODUCT

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Acute Tox. 4 H302
STOT RE 2 H373

2.1.2 Additional information

See section 16 for full text of H statements

2.2 LABELLING ELEMENTS

2.2.1 Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)

Pictogram(s):



Signal word

WARNING

Hazard statement(s)	H302 HARMFUL IF SWALLOWED H373 MAY CAUSE DAMAGE TO ORGANS (KIDNEYS) THROUGH PROLONGED OR REPEATED EXPOSURE.
Precautionary statement(s)	P260 DO NOT BREATHE MIST/VAPOURS/SPRAY. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P301+P312 IF SWALLOWED: CALL A POISON CENTRE OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.
2.3 Other hazards	THE PREPARATION CONTAINS A SUBSTANCE THAT HAS A WORKPLACE EXPOSURE LIMIT (WEL)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation MIXTURE

Hazardous Substances

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3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
MONOETHYLENE GLYCOL (ETHANE-1,2-DIOL)	107-21-1	203-473-3	Acute Tox. 4 H302; STOT RE 2 H373	80-90%

4. FIRST AID MEASURES

4.1 Description of measures	
Inhalation	Remove casualty to fresh air. If necessary, seek medical advice.
Skin contact	Clean areas of skin affected with soap and plenty of water. If necessary, seek medical advice.
Eye contact	Wash out eye thoroughly with plenty of water until irritation subsides. If necessary, seek medical advice
Ingestion	If product is swallowed, do NOT induce vomiting. Drink plenty of water; if necessary, seek medical advice.
4.2 Most important effects/symptoms	None known
4.3 Immediate/special treatment	Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media	To suit local surroundings (e.g. water spray, carbon dioxide, foam or chemical powder).
5.2 Special hazards	Decomposition products released in a fire should be considered as probably harmful if inhaled.
5.3 Advice for fire fighters	Wear self-contained breathing apparatus. Cool containers with water spray.

6. ACCIDENTAL RELEASE MEASURES




6.1 Personal precautions	Adhere to personal protective measures (see sections 7 and 8).
6.2 Environmental precautions	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
6.3 Methods and materials for cleaning up	Take up as appropriate, e.g. sweep or vacuum up, into tightly closed containers. Label container and dispose of as prescribed.
6.4 Reference to other sections	See section 8 for personal protective equipment.

7. HANDLING & STORAGE

7.1 Precautions for safe handling	Handle in accordance with good hygiene and safety practice.
7.2 Conditions for safe storage	Ensure adequate ventilation of storage area. Keep containers tightly closed, cool and dry and out of sunlight. Store between 0-50°C in mild or stainless steel containers.
7.3. Specific end use(s)	For stopping radiator and cooling system leaks; inhibiting rust and corrosion.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Controls parameters	Workplace Exposure Limits (WELs) have been assigned by the HSE. . LTEL (8 hour TWA): 10 mg/m ³ Data for particulate ethane-1,2-diol ^{*k} LTEL (8 hour TWA): 20 ppm 52 mg/m ³ Data for ethane-1,2-diol vapour STEL (15 min): 40 ppm 104 mg/m ³ Data for ethane-1,2-diol vapour ^{*k} Can be absorbed through the skin.	
8.2 Exposure controls		
Engineering controls	Provide adequate ventilation	
Personal protection	Observe normal standards for handling chemicals. . Avoid inhalation, and contact with eyes and skin Wear personal protective equipment appropriate to the task (see below)	
Eye protection	Safety goggles	
Skin protection	Butyl rubber gloves gloves, (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)	
Respiratory protection	Approved respirator (e.g. EN 166) if ventilation is insufficient.	
Other protection	Protective overall	

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties	
Physical form	Liquid
Colour	No data available
Odour	Characteristic
Odour Threshold	Not determined
pH	approx. 9.
Boiling pt / range	>190°C
Melting pt / range	10-15°C
Flash point	>100 °C (closed cup)
Flammability	Not applicable
Evaporation rate	Not applicable
Explosion limits	Not applicable
Auto-ignition temperature	>350°C
Decomposition temp.	Not applicable
Relative density	approx. 1.1 l @ 20°C
Viscosity	approx.. 24 mPas @ 20°C
Vapour pressure	Not determined
Vapour density	approx. 2.1 (air=1)
Water solubility	miscible

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9. PHYSICAL AND CHEMICAL PROPERTIES

Explosive properties	Not determined
Oxidising properties	Not determined
Partition coeff. Log_{Oct/water}	Not determined
9.2 Other information	None known

10. STABILITY & REACTIVITY

10.1 Reactivity	Stable under normal conditions of handling
10.2 Chemical stability	Stable
10.3 Hazardous reactions	Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Heat and sources of ignition. Strong oxidisers.
10.5 Incompatible material	Strong oxides, strong acids and alkalies
10.6 Hazardous decomposition products	Oxides of carbon

11. TOXICOLOGICAL INFORMATION

11.1 information on toxicological effects

Acute toxicity	LD ₅₀ rat (oral)	7712 mg/kg	Data for ethane-1,2-diol
	LD ₅₀ mouse (derm)	>3500 mg/kg	Data for ethane-1,2-diol
	LD ₅₀ rat (inhal)	>2.5 mg/l	Data for ethane-1,2-diol (6hrs)
Dermal compatibility	No data available		
Mucous membrane compatibility	No data available		
Further information	Non sensitising (ethane-1,2-diol, guinea pig)		

12. ECOLOGICAL INFORMATION

12.1 Toxicity	LC ₅₀ Fish (fathead minnow)	>7000 mg/l	Data for ethane-1,2-diol, 96hrs
	EC ₅₀ Daphnia magna	>100 mg/l	Data for ethane-1,2-diol, 48hrs
12.2 Degradability	Not determined		
12.3 Bioaccumulative potential	log Pow -1.93	Data for ethane-1,2-diol	
12.4 Mobility in soil	Henry's Law Constant: 0.1327 atm m ³ /mol (Data for ethane-1,2-diol)		
12.5 PBT/vPvB assessment	No data available		
12.6 Other adverse effects	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.		

13. DISPOSAL CONSIDERATIONS

Advice on disposal	In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005.
Contaminated packaging	Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

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14. TRANSPORT INFORMATION

14.1 United Nations number (ADR, IMDG, IATA)	Not classified
14.2 Proper shipping name (ADR, IMDG, IATA)	Not classified
14.3 Transport class(s) (ADR, IMDG, IATA)	Not classified
14.4 Packing group (ADR, IMDG, IATA)	Not classified
14.5 Environmental hazards (ADR, IMDG, IATA)	The product should not be marked as a marine pollutant.
14.6 Special procedures	Not applicable
14.7 Transport in bulk	Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations	The product is classified in accordance with Regulation (EC) No 1272/2008 and Regulation (EC) No 1907/2006, on the basis of available information for the ingredients from supplier safety data sheets
15.2 Chemical safety assessment	Not applicable

16. OTHER INFORMATION

Further information The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)

Hazard statements referred to in sections 2/3

H302: Harmful if swallowed
H373: May cause damage to organs through prolonged or repeated exposure.

Sources of data Other suppliers' safety data sheets, ECHA C&L Inventory, EH40 (2011)

Date of issue 25-08-2015

This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties. The user has the responsibility to satisfy himself as to the suitability of the information for his own specific use.

Data sheet prepared by Rising HS&E Services.