

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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OPUS ANTIFREEZE

Revision 2
Revision date 2016-10-05

1.1. Product identifier

Dradust name	ODLIC ANTIEDEEZE
Product name	l opus antifreeze

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU17] General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment; [PC4]

Anti-Freeze and de-icing products;

1.3. Details of the supplier of the safety data sheet

Company Ferguson & Menzies Ltd

Address 312 Broomloan Road

Glasgow G51 2JW

Web www.fergusonmenzies.co.uk

Telephone 0141-445 3555 **Fax** 0141-425 1079

Email info@fergusonmenzies.co.uk info@fergusonmenzies.co.uk competent person

1.4. Emergency telephone number

Emergency telephone number 0141-445-3555

09.00 - 17.00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - Xn; R22

1999/45/EC Symbols: Xn: Harmful.

Main hazards Harmful if swallowed.

2.1.2. Classification - ECAcute Tox. 4: H302; Repr. 1B: H360FD;

1272/2008

2.2. Label elements

Hazard pictograms





Signal Word

Danger

Hazard Statement

Acute Tox. 4: H302 - Harmful if swallowed.

Repr. 1B: H360FD - May damage fertility. May damage the unborn child.

Precautionary Statement:

Prevention

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash thoroughly after handling.

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2.2. Label elements

	P270 - Do no eat, drink or smoke when using this product.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement:	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell.
Response	P308+P313 - IF exposed or concerned: Get medical advice/attention.
	P330 - Rinse mouth.
Precautionary Statement:	P405 - Store locked up.
Storage	
Precautionary Statement:	P501 - Dispose of contents/container to
Disposal	

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration	Conc. (%w/w)	Classification	M-factor.
ETHANEDIOL (Ethane-1,2-diol	603-027-00-1	107-21-1	203-473-3	Halliboi	90 - 100%	Xn; R22	
particulate) disodium tetraborate pentahydrate	005-011-02-9	12179-04-3	215-540-4		1 - 10%	Repr. Cat. 2; R60-61	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
ETHANEDIOL (Ethane-1,2-diol particulate)	603-027-00-1	107-21-1	203-473-3		90 - 100%	Acute Tox. 4: H302;	
disodium tetraborate pentahydrate	005-011-02-9	12179-04-3	215-540-4		1 - 10%	Repr. 1B: H360FD;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Move the exposed person to fresh air. Seek medical attention.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Coughing, difficulty in breathing.	
Skin contact	Itching.	
Ingestion	Headache, nausea and vomiting.	

4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Skin contact	If skin irritation or rash occurs: Get medical advice/attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

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5.3. Advice for firefighters				
	Self-contained breathing apparatus. Wear protective clothing.			
SECTION 6: Accidental relea	ase measures			
6.1. Personal precautions, prote	ctive equipment and emergency procedures			
	Ensure adequate ventilation of the working area. Wear suitable protective equipment.			
6.2. Environmental precautions				
	Do not allow product to enter drains. Prevent further spillage if safe.			
6.3. Methods and material for co	6.3. Methods and material for containment and cleaning up			
	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.			
6.4. Reference to other sections				
	See section 8 for further information.			
SECTION 7: Handling and st	SECTION 7: Handling and storage			
7.1. Precautions for safe handling	ng			
	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.			
7.2. Conditions for safe storage, including any incompatibilities				
	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.			
7.3. Specific end use(s)				
	See section 1.2 for further information.			
SECTION 8: Exposure contr	SECTION 8: Exposure controls/personal protection			

8.1.1. Exposure Limit Values

8.1. Control parameters

ETHANEDIOL (Ethane-1,2-diol	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
particulate)		
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
ETHANEDIOL (Ethane-1,2-diol	WEL 8-hr limit ppm: 20	WEL 8-hr limit mg/m3: 52
vapour)		
	WEL 15 min limit ppm: 40	WEL 15 min limit mg/m3: 104
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:

8.2. Exposure controls

8.2.1. Appropriate engineering	Ensure adequate ventilation of the working area.
controls	
8.2.2. Individual protection	Wear chemical protective clothing.
measures	
Eye / face protection	Approved safety goggles.
Skin protection -	Chemical resistant gloves (PVC).
Handprotection	
Respiratory protection	Self-contained breathing apparatus. Wear protective clothing.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid

Colour

Odour Odourless

Melting point -12 °C

Initial boiling point 165 °C

Flash point 111 °C

Vapour pressure 0.05 Pa

Vapour density 2.14 g/cm³

Relative density 1.11 - 1.14 (H2O = 1 @ 20 °C)

Autoignition temperature

400 21

Viscosity

Solubility Miscible in water

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Heat, sparks and open flames.

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous decomposition products

Do not breathe gas/fumes/vapour/spray.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Repeated or prolonged exposure may cause dermatitis.

11.1.4. Toxicological Information

OPUS ANTIFREEZE Dermal Rat LD50: 5010 mg/kg Oral Rat LD50: 5890-13400 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

OPUS ANTIFREEZE Daphnia EC50/48h: 41000.0000 mg/l Fish LC50/96h: 22810.0000 mg/l

12.2. Persistence and degradability

Not readily biodegradable

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

Disposal methods

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	Revision date 2010-10-03
Disposal methods	
	Contact a licensed waste disposal company.
Disposal of packaging	
	Dispose of in compliance with all local and national regulations.
SECTION 14: Transport info	
•	IIIIauoii
14.1. UN number	
	The product is not classified as dangerous for carriage.
14.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
14.3. Transport hazard class(es)	
	The product is not classified as dangerous for carriage.
14.4. Packing group	
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for use	- ਰਾ
	The product is not classified as dangerous for carriage.
14.7. Transport in bulk according	g to Annex II of MARPOL 73/78 and the IBC Code
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory info	
15.1. Safety, nealth and environing	mental regulations/legislation specific for the substance or mixture
	COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation,
	Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency,
	amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and
	Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
SECTION 16: Other informat	lion
Other information	
Revision	This document differs from the previous version in the following areas:
	2 - Hazard pictograms. 9 - 9.1. Information on basic physical and chemical properties (Relative density).
Text of risk phrases in Section	R22 - Harmful if swallowed.
3	R60 - May impair fertility.
	R61 - May cause harm to the unborn child.
Text of Hazard Statements in	Acute Tox. 4: H302 - Harmful if swallowed.
Section 3	Repr. 1B: H360FD - May damage fertility. May damage the unborn child.
Further information	
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use,
	storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information
	relates only to the specific material designated and may not be valid for such material used in
	combination with any other materials or in any other process.

