

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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OPUS ANTIFREEZE LONGLIFE

Revision 6 **Revision date** 2015-06-18

1.1. Product identifier

Product name	I OPUS ANTIFREEZE LONGLIFE

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
Email address of the 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 - EC Acute Tox. 4: H302; Eye Irrit. 2: H319;

1272/2008

2.2. Label elements

Hazard pictograms



Signal Word

Warning

Hazard Statement

Acute Tox. 4: H302 - Harmful if swallowed.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Precautionary Statement:

Prevention

P264 - Wash thoroughly after handling.

P270 - Do no eat, drink or smoke when using this product.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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2.2. Label elements

Precautionary Statement:	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell.
Response	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P330 - Rinse mouth.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
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 Number	Conc. (%w/w)	Classification	M-factor.
ETHANEDIOL (Ethane-1,2-diol particulate)	603-027-00-1	107-21-1	203-473-3		70 - 80%	Xn; R22	
Potassium 2-ethyl hexanoate		3164-85-0	221-625-7		1 - 10%	Xn; R63 Xi; R38-41	

EC 1272/2008

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ETHANEDIOL (Ethane-1,2-diol particulate)	603-027-00-1	107-21-1	203-473-3		70 - 80%	Acute Tox. 4: H302;	
Potassium 2-ethyl hexanoate		3164-85-0	221-625-7		1 - 10%	Skin Irrit. 2: H315; Eye Dam. 1: H318; Repr. 2: H361d;	

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

Self-contained breathing apparatus. Wear protective clothing.



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SECTION 6: Accidental release measures 6.1. Personal precautions, protective 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 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 storage 7.1. Precautions for safe handling 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 controls/personal protection 8.1. Control parameters 8.1.1. Exposure Limit Values 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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



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9.1. Information on basic physical and chemical properties

Appearance Liquid
Colour Orange

Odourless

pH 7.5 - 8.5

Melting point -12 °C

Initial boiling point 197 °C

Flash point 111 °C

Vapour pressure 0.05 Pa

Partition coefficient -1.36

Autoignition temperature 400 °C

Solubility Miscible in water

9.2. Other information

Specific gravity 1.1 g/cm³

Water 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 LONGLIFE Inhalation Rat LC50/6 h: 2.5 Oral Rat LD50: 7712

Dermal Guinea Pig LD50: 3500

SECTION 12: Ecological information

12.1. Toxicity

OPUS ANTIFREEZE LONGLIFE	Daphnia EC50/48h: 100.0000 mg/l	Fish LC50/96h: 72860.0000 mg/l		
	Green algae EC50/96h: 6500	Fathead minnows LC50/96h: 15380		

12.2. Persistence and degradability

Not readily biodegradable.



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12.3. Bioaccumulative potential

Partition coefficient

OPUS ANTIFREEZE LONGLIFE -1.36

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

Disposal methods

Contact a licensed waste disposal company.

Disposal of packaging

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

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 user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental 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 information

Other information

Revision This document differs from the previous version in the following areas:.

- 2 2.1.2. Classification EC 1272/2008.
- 2 Hazard pictograms.
- 2 Signal Word.
- 2 Precautionary Statement: Prevention.
- 2 Precautionary Statement: Response.
- 2 Precautionary Statement: Storage.
- 2 Precautionary Statement: Disposal.



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Other information	
	9 - 9.1. Information on basic physical and chemical properties (Odour).
	9 - 9.1. Information on basic physical and chemical properties (PH).
	9 - 9.1. Information on basic physical and chemical properties (Initial boiling point).
	9 - 9.1. Information on basic physical and chemical properties (Melting point).
	9 - 9.1. Information on basic physical and chemical properties (Flash point).
	9 - 9.1. Information on basic physical and chemical properties (Autoignition temperature).
	9 - 9.1. Information on basic physical and chemical properties (Vapour pressure).
	9 - 9.1. Information on basic physical and chemical properties (Freezing Point).
	9 - 9.2. Other information (Partition coefficient).
	9 - 9.2. Other information (Specific gravity).
	11 - 11.1.4. Toxicological Information.
	12 - 12.1. Toxicity.
	15 - Symbols.
Text of risk phrases in Section	R22 - Harmful if swallowed.
3	R38 - Irritating to skin.
	R41 - Risk of serious damage to eyes.
	R63 - Possible risk of harm to the unborn child.
Text of Hazard Statements in	Acute Tox. 4: H302 - Harmful if swallowed.
Section 3	Skin Irrit. 2: H315 - Causes skin irritation.
	Eye Dam. 1: H318 - Causes serious eye damage.
	Repr. 2: H361d - Suspected of damaging 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.

