

SAFETY DATA SHEET according to 1907/2006/EC, Article 31

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OPUS FOODGRADE PG ANTIFREEZE

 Revision
 1

 Revision date
 2015-06-18

SECTION 1: Identification	of the subs	tance/mix	ture and of	the company/und	ertaking		
1.1. Product identifier							
Product name	OPUS F	OODGRAI	DE PG ANTI	FREEZE			
1.2. Relevant identified uses of	of the substa	nce or mixt	ure and use	s advised against			
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC4] Anti-Freeze and de-icing products;						
1.3. Details of the supplier of t	he safety da	ta sheet					
Company	Ferguson & Menzies Ltd						
Address	312 Broomloan Road Glasgow G51 2JW						
Web	www.fer	gusonmen	zies.co.uk				
Telephone	0141-44	5 3555					
Fax	0141-42	5 1079					
Email	info@fer	info@fergusonmenzies.co.uk					
Email address of the competent person	info@fer	rgusonmen	zies.co.uk				
1.4. Emergency telephone nui	mber						
Emergency telephone numbe	r 0141-44 09.00 - 1						
SECTION 2: Hazards iden							
2.1. Classification of the subst		ure					
Main hazards		nificant Haz	ard				
2.2. Label elements							
Risk phrases	No Sigr	nificant Haz	ard				
SECTION 3: Composition/	information	on ingred	lients				
3.2. Mixtures							
67/548/EEC / 1999/45/EC							
	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
MONO PROPYLENE GLYCOL (Propane-1,2-diol total vapour and particulates)		57-55-6	200-338-0		70 - 80%	6	
EC 1272/2008							
Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
MONO PROPYLENE GLYCOL (Propane-1,2-diol total vapour and particulates)		57-55-6	200-338-0		70 - 80%	6	
SECTION 4: First aid meas	sures						
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4.1. Description of first aid measures

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Inhalation	May cause irritation to mucous membranes. Move the exposed person to fresh air.
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. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.
4.2. Most important symptoms a	and effects, both acute and delayed
Skin contact	May cause sensitisation by skin contact.
4.3. Indication of any immediate	e medical attention and special treatment needed
Skin contact	If skin irritation or rash occurs: Get medical advice/attention.
SECTION 5: Firefighting me	easures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising from	m the substance or mixture
	Burning produces irritating, toxic and obnoxious fumes.
5.3. Advice for firefighters	
	Wear suitable respiratory equipment when necessary.
SECTION 6: Accidental rele	ase measures
6.1. Personal precautions, prote	ective equipment and emergency procedures
	Ensure adequate ventilation of the working area.
6.2. Environmental precautions	
	Do not allow product to enter drains. Prevent further spillage if safe.
6.3. Methods and material for c	ontainment and cleaning up
	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
6.4. Reference to other sections	8
	See section 8 for further information.
SECTION 7: Handling and s	storage
7.1. Precautions for safe handli	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. Store in correctly labelled containers.
7.3. Specific end use(s)	
	See section 1.2 for further information.
SECTION 8: Exposure cont	rols/personal protection
8.1. Control parameters	
	Adopt best Manual Handling considerations when handling, carrying and dispensing.

8.1.1. Exposure Limit Values



8.1.1. Exposure Limit Values

MONO PROPYLENE GLYCOL (Propane-1,2-diol particulates)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
MONO PROPYLENE GLYCOL (Propane-1,2-diol total vapour and particulates)	WEL 8-hr limit ppm: 150	WEL 8-hr limit mg/m3: 474
. ,	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total - inhalable dust: WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total - inhalable dust: WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection	Wear protective clothing.
measures	
Eye / face protection	In case of splashing, wear:. Approved safety goggles.
Skin protection -	Chemical resistant gloves (PVC).
Handprotection	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid	
Colour	Colourless	
Odour	Odourless	
Melting point	< -20 °C	
Initial boiling point	184 °C	
Flash point	104 °C	
Evaporation rate	0.01	
Upper Explosive Limit	12.5 %	
Lower Explosive Limit	2.6 %	
Vapour pressure	20 Pa	
Vapour density	2.6	
Relative density	1.05 (H2O = 1 @ 20 °C)	
Partition coefficient	-1.07	
Autoignition temperature	> 400 °C	
Viscosity	43.4 mPas (Cone & Plate)	
Solubility	Soluble 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



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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		
11.1.4. Toxicological Information	1		
OPUS FOODGRADE PG ANTIFREEZE	Inhalation Rat LC50/2 h: 317402	Oral Rat LD50: 22000	
	Dermal Rabbit LD50: 2000		
	No data is available on this product.		
SECTION 12: Ecological info	ormation		
12.1. Toxicity			
OPUS FOODGRADE PG ANTIFREEZE	Daphnia EC50/48h: 18340.0000 mg/l	Fish LC50/96h: 40613.0000 mg/l	
	Green algae EC50/96h: 19000		
12.3. Bioaccumulative potential			
Partition coefficient			
	OPUS FOODGRADE PG -1.07 ANTIFREEZE		
Further information			
	No data is available on this product.		
SECTION 13: Disposal cons	iderations		
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 info	rmation		
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.		



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14.5. Environmental ha	
	The product is not classified as dangerous for carriage.
14.6. Special precaution	ns 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.
Further information	
	The product is not classified as dangerous for carriage.
SECTION 15: Regul	atory information
15.1. Safety, health and	d 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 (EC) 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:. 1 - CAS No. 1 - EC No. 9 - 9.1. Information on basic physical and chemical properties (Relative density). 9 - 9.1. Information on basic physical and chemical properties (Upper Explosive Limit). 9 - 9.1. Information on basic physical and chemical properties (Lower Explosive Limit). 9 - 9.2. Other information (Partition coefficient). 11 - 11.1.4. Toxicological Information. 12 - 12.1. Toxicity.
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

