

MATERIAL SAFETY DATA SHEET

MSDS

Trade Name: Kilfrost 400

Kilfrost 400

1. PRODUCT AND COMPANY

TRADE NAME:	Kilfrost 400	APPROVED:	YES
CHEMICAL NAME:		RECEIPT NO:	
FORMULA:		ARTICLE NO:	
SYNONYMS:		EC-NO:	
INDEX NO:		CAS NO:	
GROUP:		PR.NO:	
SUPPLIER:	Kilfrost Limited, 4th Floor, Time Central, 32 Gallowgate, Newcastle Upon Tyne, NE1 4SN. UK		
TOXIC INFORMATION:	070 245 245	EMERGENCY PHONE:	Gifcentrum 070 245 245
RESPONSIBLE:			
AUTHOR:			
APPLICATION:			
MORE INFORMATION:			

2. COMPOSITION

COMPOSITION	CAS-NO	EC-NO	% CONC.	CH	CF	CE	R-phrases	NOTE
Ethane-1,2-diol	107-21-1	203-473-3	50-100	Xn			22	

EXPLANATION:

CF/CH/CE=Classification fire/-health/-environment, Tx=Very Toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritating, IK=No classification required, E=Explosive, O=Oxidizing, Fx=Extremely flammable, F=Highly flammable, N=Danger for environment, M=Genotoxic, A=Sensitisation, K=Carcinogen, R=Causes birth defects.

COMPOSITION COMMENTS:

See chapter 16 for the complete wording of all R-phrases as stated in chapter 2.

3. HAZARDS IDENTIFICATION



MORE INFORMATION:

Health: Harmful if swallowed. Can act slightly irritating to skin and eyes. Product can evaporate and cause drowsiness and dizziness. High concentration of vapours/fumes can give headache and intoxication.

4. FIRST AID MEASURES

INHALATION:
Provide fresh air.

SKIN CONTACT:
Wash the skin with soap and water.

EYE CONTACT:
Flush eyes with plenty of water for at least 15 min, seek medical attention if the pain persists.

INGESTION:
Flush mouth and drink plenty of water. Contact doctor.

INFORMATION TO HEALTH PERSONEL:
Symptoms: See chap. 11.
National Poison Information Centre (antigifcentrum Belgium): 070 245 245

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISH MEDIA:
Foam, CO₂, powder, waterspray.

UNSUITABLE EXTINGUISH MEDIA:
Directed water jet may cause danger for spreading burning material.

FIRE AND EXPLOSION HAZARDS:
Not flammable.

PERSONAL PROTECTION WHEN FIREFIGHTING:
Firefighters shall wear breathing apparatus.

SPECIAL FIREFIGHTING PROCEDURES:
Containers in the proximity of fire must be moved or water-cooled.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
Use protecting gear, see chapter 8.
- **ENVIRONMENTAL PRECAUTIONS:**
Do not let into drain.

- **CLEANING MEASURES:**
Absorb with inactive materials. e.g. vermiculite, sand, dolomite, soil etc. Place spillage in suitable container and dispose the material following local regulations. See chapter 13.

7. HANDLING AND STORAGE

HANDLING:
Important: Personal hygiene. Avoid contact with eyes and skin. Use ventilation. Personal protection: See chapter 8.

STORAGE:
Keep in original packing in a cool and ventilated area, closed packages. Do not store with oxidizing substances and strong acids. Store unaccessible to children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROL:
Sufficient general and local ventilation. Avoid contact with skin and eyes. Important: Personal hygiene. Eyewashing available. Use process control to avoid exceeding the occupational exposure limit.

RESPIRATORY PROTECTION:
If insufficient ventilation: Use A2-filter.

EYE PROTECTION:
Safety goggles with side protection if risk for squirting in the eyes.

HAND PROTECTION:
Wear suitable gloves (butyl or neoprene), when exposed to material.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid	ODOUR:	Faint
COLOUR:	Redbrown	SOLUBILITY:	
MELTING/FREEZING POINT:		BOILING POINT:	115-125 °C
DENSITY:	1,107 g/ml	FLASH POINT:	115°C
EXPLOSION LIMITS LEL-UEL %:		PH (CONCENTRATE.):	8,5-9
SOLUBILITY IN WATER:	Completely soluble	MOL MASS:	
VAPOUR PRESSURE:	8,5 mmHg	VISCOSITY:	20 mm ² /s
SATURATION CONC.:		AUTO IGNITION TEMP:	410°C
DECOMPOSITION TEMP.:		SMELL LIMIT:	
PH (SOLUTION):	9,3	REL.VAPOUR DENSITY (AIR=1):	

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

REACTIVITY:

Avoid contact with strong oxidizing compounds.

11. TOXICOLOGICAL INFORMATION

GENERAL:

At normal use the product is assumed to have no health risk.

INHALATION:

Inhalation of vapours may cause irritation of respiratory system. Product can evaporate and cause drowsiness and dizziness. High concentration of vapours/fumes can give headache and intoxication.

SKIN CONTACT

May cause irritation, defat the skin and cause cracks.

EYE CONTACT:

May cause irritation.

INGESTION:

Harmful if swallowed. Ingestion of larger quantities can cause nausea, stomach pains, vomiting and diarrhoea. Risk of kidney damage.

ORAL TOXICITY:

Not known

DERMAL TOXICITY:

Not known

INHALATION. TOXICITY:

Not known

12. ECOLOGICAL INFORMATION

MOBILITY:

Soluble.

ECOTOXICITY:

No results from ecological tests available. Still, all precautions must be taken to avoid uncontrolled releases to the environment.

13. DISPOSAL

DECONTAMINATION/DISPOSAL:

Equipment can be washed with water and ordinary detergent. Special waste.

DISPOSAL GROUP:

EWC-code: 16 01 15 antifreeze fluids other than those mentioned in 16 01 14

14. TRANSPORT INFORMATION

ADR(Road)			
UN NO:		CLASS:	
LABEL:		DANG. GOODS:	No

PACKING GROUP:		HAZ. ID NO:	
RID(Railway)			
UN NO:		CLASS:	
HAZ. ID NO:		DANG. GOODS:	No
PACKING GROUP:			
IMDG(SEA)			
UN NO:		CLASS:	
LABEL:		DANG. GOODS:	No
EMS:		PACKING GROUP:	
MARINE POLL:		SUB.RISK:	
IATA(Airplane)			
UN NO:		CLASS:	
LABEL:		DANG. GOODS:	No
SUB.RISK:		PACKING GROUP:	

15. REGULATORY INFORMATION



R-PHRASES:
R22 Harmful if swallowed.

S-PHRASES:
S24/25 Avoid contact with skin and eyes.

REFERENCES:

Revised in compliance with national regulations for health, fire and environment labelling. (The Working Environment Act, Pollution Control Act, Act relating to Prevention of Fire, Explosion and Accidents involving Hazardous Substances and the Fire Services)

Databases: List of Dangerous Substances, The Observation List, List of Priority Substances.

Authorities: Belgium Labour Inspection Authority, Directorate for Civil Protection and Emergency Planning, , Petroleum Safety Authority Belgium.

Transport legislation: The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (ADR/RID), The International Maritime Dangerous Goods (IMDG), International Air Transport Association Dangerous Goods (IATA)

EU-directives : 67/548/EEC, 1999/45/EC, 2001/58/EC, 2004/73/EF (29.ATP) with later amendments.

MORE INFORMATION:

Revision no. 1: amendements in section 1, 4, 13, 15, 16.

16. OTHER INFORMATION

Replace date:: 17-12-2010

MORE INFORMATION:

BML bouwmachines is not responsible for mistakes or faulty information which is given from the producer. The producer given in chapter 1 is responsible for this MSDS and is legal responsible for the content.

Signature:



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