

SAFETY DATA SHEET Kilfrost K400

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Kilfrost K400

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

Identified usesLubricant for pneumatic tools. Antifreeze liquid.

1.3. Details of the supplier of the safety data sheet

Supplier Kilfrost Limited

Albion Works HALTWHISTLE Northumberland NE49 0HJ ENGLAND

Tel: (01434) 320332 Fax: (01434) 321463 Email: info@kilfrost.com

1.4. Emergency telephone number

+44 (0) 1434 320332 (09:00 - 17:00, Mon-Fri) or +44 (0) 7760 627598 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Not classified.

Human health Acute Tox. 4 - H302; Eye Dam. 1 - H318

Environment Not classified.

Classification (1999/45/EEC) Xn;R22. Xi;R41.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

P310

2.2. Label elements

Contains ETHANEDIOL Label In Accordance With (EC) No. 1272/2008





Signal Word Danger

Hazard Statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary Statements

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P501 Dispose of contents/container in accordance with local regulations.

Supplementary Precautionary Statements

P264 Wash contaminated skin thoroughly after handling.
P330 Rinse mouth.

2.3. Other hazards

No other information noted.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

ETHANEDIOL			30-60%
CAS-No.: 107-21-1	EC No.: 203-473-3		
Classification (EC 1272/2008) Acute Tox. 4 - H302		Classification (67/548/EEC) Xn;R22	
SODIUM SULPHONATE			5-35%
Classification (EC 1272/2008) Eye Dam. 1 - H318		Classification (67/548/EEC) Xi;R41.	
Confidential component			1-5%
Classification (EC 1272/2008) Eye Irrit. 2 - H319		Classification (67/548/EEC) Xi;R36.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Treat Symptomatically.

Inhalation

Move the exposed person to fresh air at once. Get medical attention.

Ingestion

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation

Irritation of nose, throat and airway.

Ingestion

May cause discomfort if swallowed. Sore throat. May cause stomach pain or vomiting.

Skin contact

Prolonged skin contact may cause redness and irritation.

Eye contact

Irritating and may cause redness and pain. May cause severe irritation to eyes. Profuse watering of the eyes.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Water spray should be used to cool containers.

Protective equipment for fire-fighters

Use protective equipment appropriate for surrounding materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8.

6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Collect with absorbent, non-combustible material into suitable containers. For waste disposal, see section 13.

6.4. Reference to other sections

For personal protection, see section 8. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Read and follow manufacturer's recommendations. Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA	- 8 Hrs	STEL	- 15 Min	Notes
ETHANEDIOL	WEL	20 ppm	10 mg/m3	40 ppm	104 mg/m3	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

8.2. Exposure controls

Protective equipment

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Process conditions

Provide eyewash station.

Engineering measures

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

Use protective gloves.

Eye protection

Wear tight-fitting goggles or face shield.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

When using do not eat, drink or smoke. Wash hands after handling. Wash contaminated clothing before reuse.

Environmental Exposure Controls

Keep container tightly sealed when not in use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

AppearanceLiquidColourRed brownOdourSlight odour.SolubilityMiscible with water

Initial boiling point and boiling range 115 - 125 @ 1013 hPa

(°C)

Relative density 1.107 @ 20 Vapour density (air=1) 1.69

Vapour pressure 8.5 mm Hg @ 20

pH-Value, Conc. Solution 8.5 - 9.5 **Viscosity** 20 m2/s @ 20

Flash point (°C) >115 degC CC (Closed cup).

Auto Ignition Temperature (°C) 410

9.2. Other information

Freezing Point -60 degC

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not relevant

10.4. Conditions to avoid

Avoid heat.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids.

10.6. Hazardous decomposition products

None under normal conditions. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD50)

130000 mg/kg Rat

Estimated Value

Ingestion

Harmful if swallowed. May cause stomach pain or vomiting.

Eye contact

Risk of serious damage to eyes. Irritating and may cause redness and pain. May cause severe irritation to eyes. Profuse watering of the eyes.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute Toxicity - Fish

LC50 96 hours 18500 mg/l Onchorhynchus mykiss (Rainbow trout)

Estimated Value

12.2. Persistence and degradability

Degradability

The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

The product is miscible with water. May spread in water systems.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

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14.3. Transport hazard class(es)

Transport Labels

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Water hazard classification

WGK 2

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

Only trained personnel should use this material.

Revision Comments

All previous revisions no longer valid, complete re-issue of SDS.

Revision Date 23/07/2013

Revision 1

Safety Data Sheet Status Approved.

Risk Phrases In Full

R22 Harmful if swallowed.
R36 Irritating to eyes.

R41 Risk of serious damage to eyes.

Hazard Statements In Full

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H302 Harmful if swallowed.

Disclaimer

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.