



HEALTH AND SAFETY DATA SHEETS

1. PRODUCT NAME

Kilfrost 400

SUPPLIED BY

Kilfrost Limited
Albion Works
HALTWHISTLE
Northumberland
NE49 0HJ
ENGLAND

DESCRIPTION

Pneumatic Tool Anti- freeze Lubricant.

EMERGENCY NUMBERS

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2. HAZARD IDENTIFICATION

**Classification under CHIP:
Classification under CLP (GHS):**

**Xn: R22, R22: Harmful if swallowed.
Acute Tox. 4: H302, H302: Harmful if
swallowed.**

2.1	Skin	There may be mild irritation
2.2	Eyes	There may be irritation and redness.
2.3	Ingestion	There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.
2.4	Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion.
2.5	Occupational Exposure Limits	An exposure limit has been set for Mono ethylene glycol (synonym ethane-1,2-diol).
	UK (EH 40) WEL	
	Particulates	10mg/m ³ (8hr TWA)
	Vapour	52mg/m ³ (8hr TWA) 104mg/m ³ (STEL)
	ACGIH TLV – TWA	TVL 125 mg/m ³ (ceiling)
	GERMANY MAK	No limit assigned.

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3. COMPOSITION

- 3.1 Aqueous mono ethylene glycol mixture containing lubricity and wear additives.
- 3.2 Contains <50% mono ethylene glycol. (Harmful; R22, S2, 24/25).
CAS no. 107-21-1 EINECS no. 203-473-3
Classification under CHIP: Harmful; R22, S2, S24/25
Classification under CLP: Acute tox. 4: H302
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4. FIRST AID MEASURES

- 4.1 Skin contact Wash immediately with plenty of soap and water.
- 4.2 Eye contact Bathe the eye with running water for 15 minutes. Obtain medical assistance if irritation persists.
- 4.3 Ingestion Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.
- 4.4 Inhalation Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.
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5. FIRE FIGHTING MEASURES

- 5.1 Flash point (closed cup) Not below 115°C
- 5.2 Auto ignition temperature 410°C.
- 5.3 Explosion limits No data.
- 5.4 Advice for fire-fighters Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
- 5.5 Unusual fire hazards The product may become combustible after prolonged heating at the boiling point.
- 5.6 Extinguishing media Water, alcohol resistant foam, dry chemical, Carbon dioxide. Use water spray to cool containers.
- 5.7 Hazardous decomp. products Incomplete combustion may produce Carbon Monoxide and other harmful gases/vapours.
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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Prevent entry into drains and watercourses. Inform authorities if any does enter. Contain the spillage using bunding.
 - 6.1 Contain spillage and absorb on suitable material e.g. sawdust, sand or earth. Transfer to a container for disposal. See section 13.
 - 6.2 Wash the spillage area with plenty of water.
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7. HANDLING AND STORAGE

- 7.1 Avoid direct contact with the substance. Avoid breathing mists/vapours when spraying.
 - 7.2 Store in tightly sealed original containers, away from direct heat and strong oxidising agents.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Maintain sufficient ventilation to comply with 'Workplace Exposure Limit'.
 - 8.2 Avoid the formation of mists and aerosols. Ensure lighting and electrical equipment are not a source of ignition.
 - 8.3 Wear protective goggles and chemical resistant gloves. Wear suitable protective clothing.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Typical Values

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|------|---------------------------------|------------------------|
| 9.1 | Appearance | Reddish- brown liquid. |
| 9.2 | Odour | Slight. |
| 9.3 | pH (20°C) | 8.5 to 9.0 |
| 9.4 | Boiling point | 115 - 125°C |
| 9.5 | Flammability data | See 5.1 – 5.3 |
| 9.6 | Vapour pressure (20°C) | 8.5 mm Hg |
| 9.7 | Specific gravity (20°C) | 1.107 |
| 9.8 | Vapour density (air = 1) | 1.69 |
| 9.9 | Pour point | -60°C |
| 9.10 | Brookfield LVT Viscosity (20°C) | 20mm ² /S |
| 9.12 | Solubility in water | Completely miscible. |

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10. STABILITY AND REACTIVITY

- 10.1 Stable under normal storage conditions.
 - 10.2 Materials to avoid – strong oxidising agents, strong acids
 - 10.3 Conditions to avoid - Heat
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11. TOXICOLOGICAL INFORMATION

- 11.1 Intermediate effects can be expected after short-term exposure.
 - 11.2 Estimated human lethal dose is 2ml/Kg body weight.
 - 11.3 Oral intake of Mono Ethylene Glycol has caused teratogenic effects in laboratory animals. The relevance of this to humans has not been established
 - 11.4 LD₅₀ (rat – oral) 13g/Kg (calculated)
 - 11.5 LC₅₀ (fish, rainbow trout) 18,500 mg/L (96h)
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12. ECOLOGICAL INFORMATION

- 12.1 Readily biodegradable by naturally occurring micro organisms.
 - 12.2 Water Danger Class (WGK) 2
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13. DISPOSAL CONSIDERATION

- 13.1 Controlled incineration or landfill in accordance with local, state or national regulations.
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14. TRANSPORT INFORMATION

- 14.1 Not restricted under any transport regulations.
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15. REGULATORY INFORMATION

- 15.1 EEC classification for supply Harmful.
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16. OTHER INFORMATION

- 16.1 All components are registered in accordance with EINECS AND TSCA.
 - 16.2 All components are preregistered in accordance with REACH
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**The information contained herein is based on the present state of our knowledge.
No responsibility is accepted that the information is sufficient or correct in all cases.**

10th October 2011

Kilfrost Limited. Registered in England No. 297731.
Registered office: Time Central, 32 Gallowgate, Newcastle-upon-Tyne NE1 4SN