



## HEALTH and SAFETY DATA

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### 1. PRODUCT NAME

**Kilfrost 400**

#### SUPPLIED BY

Kilfrost Limited  
Albion Works  
HALTWHISTLE  
Northumberland  
NE49 0HJ  
ENGLAND

### DESCRIPTION

Pneumatic Tool Anti-freeze Lubricant.

#### EMERGENCY NUMBERS

Telephone:  
Working Hours: (01434) 320332  
Other Times: (01228) 573614  
FAX: (01434) 321463  
e-mail: [info@kilfrost.co.uk](mailto:info@kilfrost.co.uk)

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### 2. COMPOSITION

- 2.1 Aqueous mono ethylene glycol mixture containing lubricity and wear additives.
- 2.2 Contains >50% mono ethylene glycol. (Harmful; R22, S2, 24/25).

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### 3. HAZARD IDENTIFICATION

- 3.1 Inhalation Not normally a hazard due to relatively low vapour pressure.
- 3.2 Skin May be slightly irritant. Small amounts may be absorbed through skin.
- 3.3 Eyes Maybe slightly irritant.
- 3.4 Ingestion Swallowing may lead to kidney damage. Effects similar to alcoholic intoxication may occur.
- 3.5 Workplace Exposure Limits An exposure limit has been set for Mono Ethylene Glycol (synonym Ethane-1,2-diol).
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|-----------------|---|
| UK (EH 40) /WEL |   |
| Particulate     | - ppm (10 mg/m <sup>3</sup> ) (8hr TWA)                                 |
| Vapour          | - ppm (52 mg/m <sup>3</sup> ) (8hr TWA); - ppm (104 mg/m <sup>3</sup> ) |
| STEL            |   |
| ACGIH TLV       | 50 ppm (125 mg/m <sup>3</sup> ) (Ceiling).                              |

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GERMANY MAK

- ppm (26 mg/m<sup>3</sup>)

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### 4. FIRST AID MEASURES

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|-----|--------------|--|
| 4.1 | Ingestion    | Do not induce vomiting. Give large quantities of water to drink. Obtain medical attention.       |
| 4.2 | Skin contact | Wash off with soap and water or shower. Launder contaminated clothing before re-use.             |
| 4.3 | Eye contact  | Irrigate with water for 15 minutes. Obtain medical assistance if irritation persists.            |
| 4.4 | Inhalation   | Remove to fresh air irritation occurs. Obtain medical attention if symptoms of distress persist. |
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### 5. FIRE FIGHTING MEASURES

- |     |                                   |  |
|-----|-----------------------------------|--|
| 5.1 | Flash point (closed cup)          | No flash below initial boiling point of approx. 115°C.                             |
| 5.2 | Auto ignition temperature         | 410°C.   |
| 5.3 | Explosion limits                  | No data.   |
| 5.4 | Specific fire-fighting procedures | None.  |
| 5.5 | Unusual fire hazards              | The product may become combustible after prolonged heating at boiling point.       |
| 5.6 | Extinguishing media               | Water, alcohol resistant foam, dry chemical Carbon Dioxide.                        |
| 5.7 | Hazardous decomposition products  | Incomplete combustion may produce Carbon Monoxide and other harmful gases/vapours. |
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### 6. ACCIDENTAL RELEASE MEASURES

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|-----|---|
| 6.1 | Prevent entry into drains and watercourses. Inform authorities if any does enter.   |
| 6.2 | Contain spillage and absorb on suitable material e.g. sawdust, sand or earth. Transfer to a container for disposal. See section 13. |
| 6.3 | Wash the spillage area with plenty of water.  |
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### 7. HANDLING AND STORAGE

- 7.1 Avoid contact with skin and eyes. Avoid breathing mists/vapours.
- 7.2 Store in tightly sealed original containers, away from heat and oxidising agents.
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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Maintain sufficient ventilation to comply with 'Workplace Exposure Limits'.
- 8.2 Avoid the formation of mists and aerosols.
- 8.3 When handling for any length of time wear goggles and chemical resistant gloves. If there is a possibility of body contact, a rubber or PVC apron should be worn.
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### 9. PHYSICAL AND CHEMICAL PROPERTIES Typical Values

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	Viscosity (20°C)	20 mm <sup>2</sup> /S
9.11	Solubility in water	Completely miscible.

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### 10. STABILITY AND REACTIVITY

- 10.1 Stable under normal storage conditions.
- 10.2 Incompatible materials – strong oxidising agents.
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### 11. TOXICOLOGICAL INFORMATION

- 11.1 Not a hazard in normal use but swallowing may lead to kidney damage.  
See also section 3.
- 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 | LD <sub>50</sub> (rat – oral)          | 13 g/Kg (calculated)   |
| 11.5 | LC <sub>50</sub> (fish, rainbow trout) | 18,500 mg/L (96 hours) |
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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.   |
| 15.2 | Hazard symbol                 | St Andrew's Cross.   |
| 15.3 | Risk phrase                   | R22: Harmful if swallowed.   |
| 15.4 | Safety phrases                | S2: Keep out of reach of children.<br>S24/25: Avoid contact with skin & Eyes*<br><i>*Additional recommended safety advice.</i> |
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### 16. OTHER INFORMATION

- 16.1 All components are registered in accordance with EINECS AND TSCA.
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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.**

**Date: 1 February 2007**