



HEALTH and SAFETY DATA

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

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).

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).

UK (EH 40) /WEL
Particulate
Vapour
STEL
ACGIH TLV

- ppm (10 mg/m³) (8hr TWA)
- ppm (52 mg/m³) (8hr TWA); - ppm (104 mg/m³)
50 ppm (125 mg/m³) (Ceiling).

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GERMANY MAK

- ppm (26 mg/m³)

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

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|-----|-----------------------------------|--|
| 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

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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 | Viscosity (20°C) | 20 mm ² /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 LD₅₀ (rat – oral) 13 g/Kg (calculated)
- 11.5 LC₅₀ (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.
S24/25: Avoid contact with skin & Eyes* **Additional recommended safety advice.*
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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