



## HEALTH and SAFETY DATA

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### 1. PRODUCT NAME

**Kilfrost BTB**  
(BR Catalogue No. 7-29215)

#### SUPPLIED BY

Kilfrost Limited  
Albion Works  
HALTWHISTLE  
Northumberland  
NE49 0HJ  
ENGLAND

### DESCRIPTION

Low viscosity pneumatic tool anti-freeze lubricant for air braking gear on railway rolling stock.

#### EMERGENCY NUMBERS

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

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### 2. COMPOSITION

- 2.1 Aqueous mono propylene glycol mixture.
- 2.2 Contains >50% of mono propylene glycol
- 2.3 None of the ingredients are classed as Dangerous Substances.

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### 3. HAZARD IDENTIFICATION

- 3.1 Inhalation Considered to be non-hazardous.
- 3.2 Skin Unlikely to cause irritation.
- 3.3 Eyes May cause temporary irritation.
- 3.4 Ingestion Considered to be non hazardous.
- 3.5 Workplace Exposure Limits Exposure limits have been set for Mono Propylene Glycol (synonym Propane-1, 2-diol). This applies in the UK only.

#### UK (EH 40) WEL

Total (vapour & particulates) 150 ppm (470 mg/m<sup>3</sup>) (8hr TWA)  
Particulates - ppm (10 mg/m<sup>3</sup>) (8hr TWA)

ACGIH	TLV – TWA	No limit assigned.
FRANCE	VME	No limit assigned.
GERMANY	MAK	No limit assigned.

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### 4. FIRST AID MEASURES

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|-----|--------------|---|
| 4.1 | Ingestion    | Give large quantities of water to drink. Consult medical personnel.                   |
| 4.2 | Skin contact | Wash off in flowing water. Launder contaminated clothing before re-use.               |
| 4.3 | Eye contact  | Irrigate with water for 5 minutes. Obtain medical assistance if irritation persists.  |
| 4.4 | Inhalation   | Remove to fresh air if feeling unwell. Consult medical personnel if symptoms persist. |
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### 5. FIRE FIGHTING MEASURES

- |     |                                   |  |
|-----|-----------------------------------|--|
| 5.1 | Flash point (closed cup)          | None below boiling point.  |
| 5.2 | Auto ignition temperature         | 450°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 the boiling point.   |
| 5.6 | Extinguishing media               | Water, foam, dry powder, CO <sub>2</sub> .   |
| 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 | Contain spillage & 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

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|-----|---|
| 7.1 | Avoid contact with skin & eyes.   |
| 7.2 | Avoid breathing mists/vapours in area around air exhausts.                                    |
| 7.3 | Store in tightly sealed original containers, away from direct heat & strong oxidising agents. |
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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Maintain sufficient ventilation to comply with 'Workplace Exposure Limits'.
- 8.2 Wear eye protection if splashing is possible. An eye wash bottle should be available.
- 8.3 Gloves & protective overalls recommended if prolonged contact is likely.
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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Typical Values

9.1	Appearance	Clear, pink coloured fluid.
9.2	Odour	None.
9.3	pH (20°C)	9 – 9.5
9.4	Boiling point (760 mmHg)	105°C
9.5	Flammability data	See 5.1 – 5.3
9.6	Vapour pressure (20°C)	12 mm Hg
9.7	Specific gravity (20°C)	1.046
9.8	Vapour density (air = 1)	1.25 (estimated)
9.9	Freezing point	
	100%	below -70°C
	75% v/v	-30°C
	50% v/v	-14°C
9.10	Viscosity (20°C)	12 – 13 mPas
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 Considered to have low oral toxicity. See also section 3.
- 11.2 LD<sub>50</sub> (rat – oral) > 10g/Kg (calculated)
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### 12. ECOLOGICAL INFORMATION

- 12.1 Fully biodegradable - >99% in 5 days.
  - 12.2 Not considered a hazard to aquatic organisms.
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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 Not classified as hazardous under any regulations.
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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: 8 November 2001  
Revalidated December 2006**