



HEALTH and SAFETY DATA

1. PRODUCT NAME	DESCRIPTION
Kilfrost ABC-3 (BR Catalogue No. 7-25008)	Anti-icing Barrier Compound.
SUPPLIED BY	EMERGENCY NUMBERS
Kilfrost Limited Albion Works HALTWHISTLE Northumberland NE49 0HJ ENGLAND	Telephone: Working Hours:(01434) 320332 Other Times: (01228) 573614 FAX: (01434) 321463 e-mail: info@kilfrost.co.uk

2. COMPOSITION
2.1 Aqueous monopropylene glycol mixture.
2.2 Contains a minimum of 50% monopropylene glycol.

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	An exposure limit has been set for Monopropylene Glycol (synonym Propane-1,2-diol). This applies in the UK only. UK (EH 40) WEL
Total (vapour & particulates) Particulates	150 ppm (470 mg/m ³) (8hr TWA) - ppm (10 mg/m ³) (8hr TWA)
ACGIH TLV – TWA	No limit assigned.
FRANCE VME	No limit assigned.
GERMANY MAK	No limit assigned.

HEALTH and SAFETY DATA

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

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|-----|-----------------------------------|------------------------------------------------------------------------------------|
| 5.1 | Flash point (closed cup) | None below boiling point. |
| 5.2 | Auto ignition temperature | 446°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, Carbon Dioxide, dry powder. |
| 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 and eyes. Avoid breathing mists/vapours when spraying. |
| 7.2 | Store in tightly sealed original containers, away from direct heat and strong oxidising agents. |

HEALTH and SAFETY DATA

7. HANDLING AND STORAGE (continued)

- 7.3 Do not use uncoated mild steel tanks. For advice on bulk and/or heated storage contact Kilfrost.
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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 and protective overalls recommended if prolonged contact is likely.
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9. PHYSICAL AND CHEMICAL PROPERTIES **Typical Values**

9.1	Appearance	Clear, amber coloured fluid.
9.2	Odour	None.
9.3	pH (20°C)	7.0
9.4	Boiling point	104°C
9.5	Flammability data	See 5.1 – 5.3
9.6	Vapour pressure (20°C)	15 mm Hg
9.7	Specific gravity (20°C)	1.040
9.8	Vapour density (air = 1)	1.0 (estimated)
9.9	Freezing point	
	100%	-37°C
9.10	Brookfield LVT Viscosity (Spindle No. 2; 0.3 rpm)	
	20°C	4,900 mPas
	-25°C	900 mPas
9.11	Solubility in water	Completely miscible.

10. STABILITY AND REACTIVITY

- 10.1 Stable under normal storage conditions.
- 10.2 Incompatible materials – strong oxidising agents.
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HEALTH and SAFETY DATA

11. TOXICOLOGICAL INFORMATION

- 11.1 Considered to have low oral toxicity. See also section 3.
11.2 LD₅₀ (rat – oral) > 10g/Kg (OECD 401)
11.3 TL₅₀ (freshwater fish) 420 mg/L (48h)
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12. ECOLOGICAL INFORMATION

- 12.1 Fully biodegradable >99% in 5 days (Zahn-Wellens test)
12.2 BOD₅ 390 g/ O₂/Kg (OECD 301D)
12.3 COD 790 mg O₂/g (DIN 38409 Part 41-1)
12.4 TOC 234 g/Kg (DIN 38409 Part 3)
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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: 13 November 2003
Revalidated October 2006