



## HEALTH and SAFETY DATA

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### 1. PRODUCT NAME

**Kilfrost RUNWAY**

### DESCRIPTION

De-icing fluid for airport runways and ground handling areas. (AMS 1435)

### SUPPLIED BY

Kilfrost Limited  
Albion Works  
HALTWHISTLE  
Northumberland  
NE49 0HJ  
ENGLAND

### EMERGENCY NUMBERS

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Working Hours: (01434) 320332  
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### 2. COMPOSITION

- 2.1 Aqueous mixture of formate salts and corrosion inhibitors.
  - 2.2 Not classed as a Dangerous Substance.
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### 3. HAZARD IDENTIFICATION

- 3.1 Inhalation May cause irritation of the respiratory tract.
  - 3.2 Skin Repeated contact may result in irritation.
  - 3.3 Eyes May cause temporary irritation.
  - 3.4 Ingestion May cause irritation of mouth & gastrointestinal tract resulting in abdominal spasm & vomiting.
  - 3.5 Occupational Exposure Limits None assigned for any ingredient.
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### 4. FIRST AID MEASURES

- 4.1 Ingestion Rinse out mouth. Give plenty of water to drink. Obtain medical assistance.
  - 4.2 Inhalation Remove to fresh air. Obtain medical attention if symptoms persist.
  - 4.3 Skin contact Wash off in flowing water or shower. Launder contaminated clothes before reuse.
  - 4.4 Eye contact Irrigate with water for 10 minutes. Obtain medical assistance if irritation persists.
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### 5. FIRE FIGHTING MEASURES

- |     |                                   |                                                                                                                                                                     |
|-----|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1 | Flash point                       | Not applicable.                                                                                                                                                     |
| 5.2 | Auto ignition temperature         | Not applicable.                                                                                                                                                     |
| 5.3 | Specific fire-fighting procedures | Fire fighters should wear self-contained breathing apparatus.                                                                                                       |
| 5.4 | Unusual fire/explosion hazards    | If heated to dryness may decompose liberating flammable hydrogen gas.                                                                                               |
| 5.5 | Extinguishing media               | Water (preferred choice), foam, Carbon Dioxide, dry powder.                                                                                                         |
| 5.6 | Hazardous decomposition products  | If involved in a fire Carbon Monoxide and other toxic fumes may be formed. If fumes inhaled keep under medical observation for 48 hours as symptoms may be delayed. |
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### 6. ACCIDENTAL RELEASE MEASURES

- 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 water.
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### 7. HANDLING AND STORAGE

- 7.1 Hygroscopic. Store in tightly closed container to prevent moisture pickup.
- 7.2 Store away from sources of direct heat, oxidising agents and acids.
- 7.3 Do not use uncoated mild steel tanks for bulk storage.
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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Eye protection recommended. An eye wash bottle should be available at the workplace.
  - 8.2 Avoid breathing mists/aerosols if applying by spray.
  - 8.3 Wear gloves if repeated skin contact is likely.
  - 8.4 Maintain a high standard of personal hygiene.
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### 9. PHYSICAL AND CHEMICAL PROPERTIES      **Typical Values**

9.1	Appearance	Translucent, pale coloured fluid.
9.2	Odour	Slight.
9.3	pH (20°C)	11.0
9.4	Boiling point	approx. 100°C
9.5	Flammability data	See 5.1 – 5.3
9.6	Vapour pressure (20°C)	No data.
9.7	Specific gravity (20°C)	1.33
9.8	Vapour density (air = 1)	No data.
9.9	Freezing point`	-58°C
9.10	Brookfield LVT Viscosity Sp.2, 30 rpm	
	20°C	18 mPas
	-20°C	60 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 and acids.
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### 11. TOXICOLOGICAL INFORMATION

11.1	LD <sub>50</sub> (rat – oral)	> 5,000 mg/Kg	(OECD 401)
11.2	LC <sub>50</sub> (freshwater fish)	>3,000 mg/L	(OECD 203, 96 h)
11.3	EC <sub>10</sub> (bacteria)	10,000 mg/L	(DIN 38412, Part 8, 16 h)
11.4	EC <sub>50</sub> (daphnia)	1,900 mg/L	(OECD 202, 48 h)

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### 12. ECOLOGICAL INFORMATION

12.1	Fully biodegradable BOD <sub>5</sub>	0.05g O <sub>2</sub> /g
12.2	COD (Chemical Oxygen Demand)	0.1 g O <sub>2</sub> /g
12.3	Water Danger Class (WGK)	1

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### 13. DISPOSAL CONSIDERATION

13.1 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: 20 September 2004  
(revalidated 1 August 2006)**