



## HEALTH and SAFETY DATA

### 1. PRODUCT NAME

**Kilfrost Windscreen Washing  
Fluid mod.3  
AL-36 (to DTD900/4939B)**

### SUPPLIED BY

Kilfrost Limited  
Albion Works  
HALTWHISTLE  
Northumberland  
NE49 0HJ  
ENGLAND

### DESCRIPTION

Windscreen wash fluid to remove ice,  
insect debris & salt spray from military  
aircraft screens.

### 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 glycol/glycol ether mixture.
- 2.2 Contains <50% mono ethylene glycol (Harmful; R22; S2,24/25).  
<20% di propylene glycol mono methyl ether.

### 3. HAZARD IDENTIFICATION

- 3.1 Inhalation Inhalation of large quantities may produce symptoms similar to alcoholic intoxication.
- 3.2 Skin Repeated contact may result in irritation and absorption of harmful amounts.
- 3.3 Eyes May cause temporary irritation.
- 3.4 Ingestion Swallowing may lead to kidney damage. Symptoms similar to alcoholic intoxication may occur.
- 3.5 Workplace Exposure Limits Exposure limits have been set for the following,

(Synonyms	Mono Ethylene Glycol Ethane-1, 2-diol	Dipropylene Glycol Monomethyl Ether Methoxy Methyl Ethoxy Propanol)
UK (EH 40/2005) WEL		
Particulate	10 (8hr TWA) mg/m <sup>3</sup>	no limit assigned
Vapour	52 (8hr TWA), 104 (STEL) mg/m <sup>3</sup>	50 (8hr TWA) ppm
ACGIH (94)	TLV 125 (Ceiling) mg/m <sup>3</sup>	600 (8hr TWA), 900 (STEL) mg/m <sup>3</sup>

## HEALTH and SAFETY DATA

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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. Consult medical personnel.  |
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### 5. FIRE FIGHTING MEASURES

- |     |                                   |  |
|-----|-----------------------------------|--|
| 5.1 | Flash point (closed cup)          | None below 100°C.  |
| 5.2 | Auto ignition temperature         | 410°C (based on MEG content).  |
| 5.3 | Explosion limits                  | No data.   |
| 5.4 | Specific fire-fighting procedures | Wear self-contained breathing apparatus when tackling large fires.                 |
| 5.5 | Unusual fire hazards              | Will become combustible after heating above 100°C.                                 |
| 5.6 | Extinguishing media               | Water fog, alcohol resistant foam, dry chemical, 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 | Prevent entry into drains and watercourses. Inform authorities if any does enter.   |
| 6.2 | Contain spillage & 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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## HEALTH and SAFETY DATA

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### 7. HANDLING AND STORAGE

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

- 8.1 Maintain sufficient ventilation to comply with 'Workplace Exposure Limits'. Personal respiratory protection is not normally required.
- 8.2 Avoid any unnecessary formation of mists and aerosols.
- 8.3 When handling for any length of time wear goggles & chemical resistant gloves. It is recommended that an eyewash bottle is available at the workplace.
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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Typical Values

9.1	Appearance	Clear, colourless liquid.
9.2	Odour	Characteristic ethereal.
9.3	pH (20°C)	7.25 – 8.25
9.4	Boiling point (760 mmHg)	103°C
9.5	Flammability data	See 5.1 – 5.3
9.6	Vapour pressure (20°C)	13.9 mmHg (calculated)
9.7	Specific gravity (20°C)	1.05 – 1.06
9.8	Vapour density (air =1)	1.0 (calculated).
9.9	Freezing point	-34°C
9.10	Viscosity @ 20°C	5 – 10 mPas
	@ -20°C	25 – 35 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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## HEALTH and SAFETY DATA

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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 Oral intake of Mono Ethylene Glycol has caused teratogenic effects in laboratory animals. The relevance of this to humans has not been established.
- 11.3 LD<sub>50</sub> (rat – oral) > 5g/Kg (calculated)
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### 12. ECOLOGICAL INFORMATION

- 12.1 Readily biodegradable by naturally occurring micro 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 EC 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: 15 January 2002**  
Revalidated October 2006