



HEALTH and SAFETY DATA

1. PRODUCT NAME

Kilfrost FL Solvent
Flite Line Solvent

DESCRIPTION

Water based Alkaline Cleaning Solvent.

SUPPLIED BY

Kilfrost Limited
Albion Works
HALTWHISTLE
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ENGLAND

EMERGENCY NUMBERS

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2. COMPOSITION

2.1 Aqueous mixture containing approx. 34% of Tri sodium hydroxyethyl ethylene diamine triacetate. This substance is not in the EC list of dangerous substances but is classified as Irritant (R36, S24, 26).

3. HAZARD IDENTIFICATION

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|-----|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.1 | Inhalation | Main hazard is mists/sprays which may lead to ingestion. |
| 3.2 | Skin | Prolonged or repeated contact may cause irritation. |
| 3.3 | Eyes | Irritant. |
| 3.4 | Ingestion | May cause irritation to the gastro intestinal tract. Large amounts may cause hypocalcemic tetany, with spontaneous recovery, due to chelating action. |
| 3.5 | Workplace Exposure Limits | None assigned for any ingredient. |
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4. FIRST AID MEASURES

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| 4.1 | Ingestion | Seek medical attention. Give large quantities of milk or water to drink. Do not induce vomiting. Do not give anything by mouth to an unconscious person. |
| 4.2 | Inhalation | Remove to fresh air. Treat as for 'Ingestion' if symptoms persist. |
| 4.3 | Skin contact | Remove contaminated clothing & wash skin with plenty of soap and water. Launder clothes before re-use & discard contaminated footwear.
Obtain medical attention if irritation persists. |
| 4.4 | Eye contact | Immediately irrigate with water for 30 minutes. Seek medical attention. |
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5. FIRE FIGHTING MEASURES

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|-----|-----------------------------------|---------------------------------------------------------------------------------|
| 5.1 | Flash point | None. |
| 5.2 | Auto ignition temperature | >150°C |
| 5.3 | Explosion limits | No data |
| 5.4 | Specific fire-fighting procedures | Wear self-contained breathing apparatus |
| 5.5 | Unusual fire hazards | Solid residue emits toxic vapours (Nitrogen oxides) if heated to decomposition. |
| 5.6 | Extinguishing media | Water, foam, dry powder or CO ₂ . |
| 5.7 | Hazardous decomposition products | Nitrogen oxides (see 5.5) |
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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Always wear protective clothing when dealing with spillages.
 - 6.2 Prevent entry into drains and watercourses by absorbing with sand or earth
 - 6.3 Transfer to a suitable container for disposal. See section 13.
 - 6.4 Wash the spillage area with large volumes of water.
 - 6.5 Inform authorities if fluid has entered a water course or sewer or has contaminated large areas of soil or vegetation.
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7. HANDLING AND STORAGE

- 7.1 Store in lined steel, stainless steel or high density polyethylene containers.
- 7.2 Avoid contact with aluminium, zinc, copper, nickel and their alloys.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 In handling operations where liquid contact or splashing could occur wear impervious clothes, chemical safety goggles and PVC or rubber gloves.
- 8.2 Eye wash facilities & showers should be available in the work area.
- 8.3 Maintain adequate ventilation & avoid causing mists or sprays.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Typical Values

9.1	Appearance	Clear, green fluid, free from visible impurities
9.2	Odour	Slight Ammonia odour.
9.3	pH (20°C), 5% solution in water	12.0
9.4	Boiling point (760 mm Hg)	105°C
9.5	Flammability data	See 5.1 – 5.3
9.6	Vapour pressure (20°C)	12.1 mmHg
9.7	Specific gravity (20°C)	1.24 – 1.26
9.8	Vapour density (air =1)	Approximately the same as water
9.9	Solubility in water	Completely miscible
9.10	Typical working strength	5% solution in water

10. STABILITY AND REACTIVITY

- 10.1 Stable under normal storage conditions.
- 10.2 In concentrate form it will corrode Aluminium & Zinc generating Hydrogen gas. This does not occur when diluted for use.
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11. TOXICOLOGICAL INFORMATION

- 11.1 Low level of oral toxicity. Irritant due to high, alkaline, pH. See also Section 3
- 11.2 LD₅₀ (rat – oral) > 4,000 mg/Kg (calculated)
- 11.3 LC₅₀ (fish, blue gill) 970 mg/L (96 hours), (calculated)
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12. ECOLOGICAL INFORMATION

- 12.1 Biodegradable in normal aerobic conditions by micro organisms present in natural sewage.
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13. DISPOSAL CONSIDERATION

- 13.1 Disposal as chemical waste in accordance with local, state or national regulations.
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14. TRANSPORT INFORMATION

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|------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 14.1 | Classification for transport | Corrosive |
| 14.2 | Shipping name | Corrosive liquid, basic, organic n.o.s.*
(preparation containing Tri sodium hydroxyethyl ethylene diamine triacetate). |
| 14.3 | Hazard label | Corrosive |
| 14.4 | IATA | UN No. 3267; class 8; packing group III |
| 14.5 | IMDG | UN No. 3267; class 8; packing group III
EMS F-A, S-B |
| 14.6 | ADR | Class 8; packing group III |
| | Substance identification number | UN 3267 |
| | Hazard identification number | 80 |
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15. REGULATORY INFORMATION

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|------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 15.1 | EC classification for supply | Irritant |
| 15.2 | Hazard symbol | St Andrews Cross |
| 15.3 | Risk phrase | R36: Irritating to eyes |
| 15.4 | Safety phrases | S24: Avoid contact with skin
S26: In case of contact with eyes, rinse immediately with plenty of water & seek medical advice. |
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16. OTHER INFORMATION

- 16.1 All components are registered in accordance with EINECS AND TSCA.
16.2 The information given in this sheet refers to the fluid as delivered. The fluid should always be diluted to a 5% solution in water before use.
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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 December 2006