



4.2 Contact with the skin

Wash immediately with plenty of water. Remove any contaminated clothing and launder before reuse. If irritation develops, seek medical attention.

4.3 Inhalation

Remove patient to fresh air, allow to rest and keep warm. If specific symptoms are evident, seek medical attention.

4.4 Ingestion

DO NOT induce vomiting! Give 1 - 2 glasses of water or milk to drink and seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Media

- **Suitable** Not applicable as the product is an extinguishing agent.
- **Not to be used** None.

Special Exposure Hazards Thermal decomposition may produce toxic materials including trace amounts of hydrofluoric acid.

Special protective equipment for fire fighters Not normally required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Spilled product presents a significant slip hazard. Wear suitable protective clothing, gloves, safety goggles.

Environmental precautions Prevent large amounts from entering sewers or the immediate environment. In case of large spill, inform local police and/or fire brigade.

Methods for cleaning up

- **on soil** Absorb onto inert material such as sand or earth, and dispose of according to Controlled Waster Regulations. Clean up residue with water.
- **on water** None

Please refer also to Section (s) 13

7. HANDLING AND STORAGE

Handling: Although this material is not classified as hazardous, like all chemicals it should be treated with respect and in accordance with good industrial hygiene and safety procedures. In order to avoid the possibility of skin disorders, repeated or prolonged contact with products of this type must be avoided. It is essential to maintain a high standard of personal hygiene. Wash hands thoroughly after handling this product. Avoid contact with eyes. Do not breathe vapours or mists. Do not ingest.

Storage: Protect from frost. Store out of direct sunlight. Store between 1° - 48° C



8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Recommended engineering controls Ensure good ventilation. Arrange for eye wash possibility.

Control parameters:

- MEL/OES (EH40UK)	Contains Monoethyleneglycol
	10mg/m ³ 8hr TWA particulates OES
	60mg/m ³ 8hr TWA vapours OES
	125mg/m ³ 15 min STEL vapours OES

Monitoring procedures: Not required

Personal Protection

- **Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment, e.g. a breathing mask fitted with an organic vapour filter - type A1
- **Skin protection** Avoid contact with skin, especially prolonged or repeated contact. Appropriate protective clothing such as overalls or laboratory coat.
- **Eye protection** Avoid contact with eyes. Wear appropriate eye protection such as safety goggles or visor.
- **Hand protection** Rubber or plastic impervious gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear amber liquid
Odour:	Mild
pH:	7.5 to 8.0
Boiling point/range (°C):	100
Flash point (Pensky Martens) (°C):	Non-flammable
Autoignition (°C):	Not applicable
Explosive properties:	None
Density at 20°C (kg/m³):	1050 ± 10
Solubility in water (% by weight):	Miscible

Note: These are typical values and do not constitute a specification.

10. STABILITY AND REACTIVITY

- Stability:** Stable.
- Conditions to avoid:** Temperatures < 0°C and > 48°C.
- Materials to avoid:** Not applicable.

Hazardous decomposition products: Oxides of carbon and traces of hydrogen fluoride evolved if concentrated product involved in fire. At use concentrations the levels of decomposition products are so low as to be not dangerous.



11. TOXICOLOGICAL INFORMATION

Test data:

- Oral LD₅₀ rat (mg/kg) > 5000mg/kg
- Skin irritation Not irritant

Exposure hazard:

Ingestion: Not a likely route of exposure. Unlikely to produce symptoms other than mild stomach upset.

Skin contact: Repeated or prolonged contact may cause some transient irritation.

Inhalation: May cause mild transient irritation to respiratory tract

Eye contact: May cause mild transient redness or irritation.

Other Data: None

12. ECOLOGICAL INFORMATION

Aquatic toxicity

- LC₅₀, Rainbow Trout, 96hr (mg/l): No data available
- EC₅₀, Daphnia magna, 48hr (mg/l): No data available

Environmental effect

- COD (mgO₂/l): 29000
- BOD 5 (mgO₂/l): 25000

Other data

- Biodegradability: 91.6%
- Sludge Respiration: No critical inhibition effects at concentrations of 1000 mg/l

13. DISPOSAL CONSIDERATIONS

Disposal of product

According to Controlled Waste Regulation. Incineration may be possible, where authorised, after mixing with combustible material. The combustion products will include hydrogen fluoride. Spent solutions of used product and small quantities (less than 5 gallons or 20 litres) may, where authorised, be slowly discharged to a wastewater treatment system. If foaming occurs reduce discharge rate. Alternatively incineration may be used as above.

Disposal of packaging

According to Controlled Waste Regulations

**14. TRANSPORT INFORMATION**

Substance id. no. (SIN) (UN No.):	None
Correct shipping name:	Not applicable
Land transport:	Not classified under this legislation.
- Transport hazard label	Not applicable
- RID/ADR classification	Not applicable
Maritime transport:	Not classified under this legislation.
- Transport hazard label	Not applicable
- IMO - IMDG class	Not applicable
- IMO - IMDG page	Not applicable
- Packaging group	Not applicable
- EmS no.	Not applicable
- MFAG no.	Not applicable
Air Transport:	Not classified under this legislation.
- Transport hazard label	Not applicable
- ICAO/IATA classification	Not applicable
Other information	None

15. REGULATORY INFORMATION

EU labelling information	
- Symbol (s)	None
- R-Phrase (s)	None
- S-Phrase (s)	None
- EINECS number	All ingredients of this product are listed in EINECs or ELINCS, unless specifically exempted under EU Directive 67/548/EEC
Specific provisions	None

16. OTHER INFORMATION

Sources of key data used	Raw material suppliers' data sheets were used as key data sources in the preparation of this safety data sheet.
Nature of revision	Correction to ingredient percentages in Section 2. Amendment to CHIP96 regulations in Section 3. All changes are designated by an asterisk (*).