

# MORGAN POLYMERS LTD

## HEALTH & SAFETY DATA SHEET

### 1. Identification of the Substance and Company.

**Trade Name:** Multiflex Product Group 3 ( Multiflex 76 )

**Company :** Morgan Polymers Ltd, Unit 2 Century Park, Pacific Park, Altrincham, Cheshire  
WA14 5BJ

**Phone No. :** 0161- 233 - 0023

**Emergency Phone No. :** 0161- 233 - 0023

**Fax No. :** 0161- 233 - 0022

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### 2. Composition/information on ingredients.

**Chemical Characterisation :** Solution of Magnesium and Zinc Silicofluorides.

Ingredients	CAS No.	Hazard Symbols	R-Phrases	Concentration
Zinc Fluorosilicate	16871-71-9	C	34	29w/w
Water				65w/w
Magnesium fluorosilicate				6w/w

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### 3. Hazards Identification.

Zinc Fluorosilicate solution is corrosive to tissue and can cause acute systemic poisoning by absorption of fluoride ions through the skin, by inhalation of evolved fumes or by ingestion. Dilute solutions may cause delayed skin burns or irritation.

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### 4. First Aid Measures.

**Eye Contact :** Immediately wash out with water or isotonic saline solution for at least 10 minutes. seek medical attention.

**Skin Contact :** Wash off immediately with plenty of water for at least 1 minute. Massage Savlon Antiseptic cream into the infected area. If soreness persists seek medical attention.

**Inhalation :** Remove from contamination, keep warm and quiet. Seek medical attention.

**Ingestion** : Immediately give 6 effervescent soluble calcium tablets ( Sandocal or equivalent) in water orally or drink milk of magnesia solution. Do not induce vomiting. Seek medical attention.

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## **5. Fire Fighting Measures.**

**Special Hazards** : Keep containers cool by external water spray but avoid introducing water into the Containers since heat may be developed on dilution. Toxic irritant and corrosive Fumes of HF and SiF<sub>4</sub> may be liberated if the product is exposed to strong heat.

**Protective Equipment** : Full chemical suits and self contained breathing apparatus must be worn When exposed to HF vapour.

**Extinguishing Agents** : Using extinguishing media suit cause of fire.

**Extinguishing Agents Prohibited** : No Restrictions.

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## **6. Accidental Release Measures.**

Where ever possible the spillage should be isolated, diluted with water and neutralised using slaked lime or soda Ash taking precautions against heat and fumes generated during dilution and neutralisation.

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## **7. Handling and Storage.**

**Safe Handling Advice** : Atmospheric levels should be minimised as low as reasonably practicable below the Occupational Exposure Standard (OES). Contact with skin and eyes should be Prevented, as should inhalation by the wearing of suitable protective clothing and Appropriate ventilation. Clean running water should be available at the work place And eye wash stations should be easily accessible.

**Storage** : Storage areas should be cool, shaded away from sources of heat incompatibles. Good ventilation Is essential. Containers must be upright and tightly closed. Water must be available to drench the area in case of spills.

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## **8. Exposure Controls / Personal Protection.**

**Exposure Limits**: 2.5 mg (f)/m<sup>3</sup> STEL (10 minute reference period) WEL

**Respiratory Protection** : Approved respirator if OES is or may be exceeded.

**Eye Protection** : Safety Goggles

**Hand Protection** : PVC Gloves

**Skin Protection** : PVC apron. A fully protective PVC suit must be worn when handling large amounts of the Solution.

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## **9. Physical and Chemical Properties.**

**Physical State** : Liquid

**Colour** : Colourless / nearly colourless

**Odour** : Pungent

### **Safety Relevant Data.**

**Boiling Temperature** : Approx 98°C

**Melting Point** : Approx -15°C

**Flash Point** : N/A

**Vapour Pressure** : Not determined.

**Density** : 1.176 g/cm<sup>3</sup>

**Solubility** : Miscible with water

**Viscosity**: Not determined

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## **10 Stability and Reactivity**

**Materials To Avoid** : Stable under normal conditions. Avoid contact with chemicals such as sulphides, Carbonates, cyanides and many metals can evolve toxic, flammable or asphyxiating Gases. Reaction with alkaline substances will generate great heat.

**Hazardous Decomposition Products** : Irritant, toxic and corrosive fumes of HF and SiF<sub>4</sub> may be liberated on heating.

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## **11. Toxicological Information.**

**General Information about acute or other toxicity's** : LDLo oral, rat : 100mg/kg

**Experience with human beings** : No evidence listed to our knowledge of carcinogen, mutagen or teratogen Effects.

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## **12 Ecological Information**

**Persistence and Degradability** : Will persist in the form of insoluble fluorides.

**Aquatic Toxicity** : LC50, rainbow trout 5.9 – 7.5 mg/l (as F ), 10 day exposure.

**Plant toxicity**: Brown discolouring of leaves and shedding at 5ppb ( as F ), sensitive at 0.1 ppb ( as F ).

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## **13. Disposal Considerations.**

Zinc Fluorosilicate waste liquors should either be suitably treated before discharge in accordance with local and national regulations or via an approved toxic waste disposal site by an authorised waste disposal contractor in accordance with duty of care.

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## **14. Transport Information.**

**UN. N°** : 2853

**IMCO Class**: 6.1

**Packing Group**: III

**E.U. Number**: 240-894-1

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## **15. Regulatory Information.**

Classification according to EEC Directives.

**Classification** : C, corrosive

**Hazard Labels** :

**R-Phrases** : R34

**S-Phrases** : S26/27/36/37/39/45

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## **16. OTHER INFORMATION**

Before any product is used the label should be carefully read and current literature and information consulted.

The specifications are based on the current state of our knowledge and experience.

The Health & safety Data Sheet describes the products from a safety requirements aspect.

The information shall not be regarded as legally binding assurance of certain properties or suitability for a particular application.

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