

MY Polymers LTD

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Material Safety Data Sheet

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Product : Primer 133H

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1. Chemical Product

Chemical identification: Silane modified resins in solution
Intended uses: Adhesion primer for Optical Adhesive MY-133.
Molecular weight: 1200-4000

2. Composition: 20-35% polymers. 50-70% HFE-7100 (methoxy-perfluoro-butane), and 5-10% methanol.

3. Hazard identification:**Special indications of hazards to humans and the environment**

Irritating to eyes, respiratory system and skin. Dangerous if swallowed due to a release of methanol.

Physical and Chemical hazards: Releases methanol upon exposure to moisture.
 As the properties of this product has not been fully explored, care should be exercised when handling.

4. First Aid Procedures:**First Aid Measures:**

Eye contact: Irrigate with pure water for at least 3 minutes, then seek medical attention.
Skin contact: Wash with soap and water, seek medical advice in case of persistent irritation.
Ingestion: Give some glasses of water to drink. Induce vomiting. Seek medical advice in case of persistent pain.
Inhalation: Take to fresh air. Seek medical advice in case of persistent pain.

5. Fire Fighting Procedures:

Specific hazards: The product is combustible and not explosive.
 The heating of the product may cause decomposition with emission of toxic and corrosive vapours (HF, hydrogen fluoride).

Specific methods: Wear specific protective equipment (see below)
 Stay opposite the wind and at safety distance from the flames.
 Remove the containers, when possible to do it in safe conditions.
 Keep container cool by spraying with water if exposed to fire or other heat sources.

Extinguishing media: Foam, water spray, CO2, dry chemicals

Protection of fire fighters: Self contained breathing apparatus.
 Protective antiaacid overall clothing.

6. Accidental Release Procedures:

Precautions with respect to individuals: Wear suitable protective clothings. Stop the release.
Precautions with respect to environment: Avoid discharge into the environment.

Stop leaks as soon as possible.

Clean up spillage immediately.

Cleaning of spillage: Absorb with a mineral filler such as sand, vermiculite etc. collect and store in a suitable container.

7. Storage and handling:

Handling

Precautions: No foreseeable hazard when the product is properly handled. Avoid heating above the decomposition temperature. Avoid exposure to moisture and water.

Technical measures: Provide working areas with adequate ventilation and with water wash facilities (eye bath and emergency showers)

Storage

Storage conditions: keep container closed. Keep away from heat sources and moisture. Keep away from combustible, explosive and incompatible materials.

Packaging: Glass, plastic, lined materials

Recommended materials: Glass or other moisture proof container.

Non suitable materials: Not known, however, non-lined metals may corrode and contaminate the product.

8. Exposure control / individual protection:

Exposure limits: Only threshold limits of by-products from thermal decomposition and hydrolysis are available (ACGIH 2005):

HF: TLV/Ceiling 2.6 mg/mc 3 ppm

COF2: TLV/Ceiling 5.4 mg/mc 2 ppm

Methanol 8 hours, 98/24/EC 260 mg/mc 200 ppm

Engineering measures: Provide working areas with adequate ventilation/aspiration systems.

Personal Protective Equipment

Respiratory protection Use aspirator when performing operations involving potential exposure to vapour of the product.

Respirator with filler for organic vapour.

Eye Protection Safety goggles

Hand Protection rubber gloves

Skin and body protection worksuit or rubber apron

Hygiene measures Do not drink, eat and smoke during handling.

9. Physical and Chemical Properties:

Appearance: low viscous liquid.

Color: colorless, transparent

Odor: characteristic

Refractive index: 1.33 after curing

Viscosity: low

Flash point: NA

Boiling Point: 60-80°C

Decomposition temperature: NA

Spontaneous ignition: No

Explosive Properties: None

Vapor Pressure: 210 mmHg for HFE-7100

Density: NA

Solubility in water: insoluble. Releases methanol.

Solubility in organic solvents: soluble in esters and ketones

Volatiles: 75%

10. Stability and Reactivity

Stability: The product is stable in normal conditions of use and storage.

Conditions to avoid: Temperature above 60°C

Exposure to moisture

Contact with heat sources

Materials to avoid: Avoid water

Oxidising or reducing agents

Fine powdered magnesium, aluminium and their alloys above 100°C.

Hazardous decomposition products: carbon monoxide, nitrogen oxides, hydrogen cyanide, hydrogen fluoride, carbonyl fluoride.

11. Toxicological Information

Penetration routes: Contact and ingestion

Adverse effects for human health: Delayed and/or immediate effects after short and/or prolonged exposure:

Acute toxicity: No available data

Local effects/irritating power: No available data

Sensitization: No available data

Chronic toxicity: No available data

Carcinogenicity: No available data

Mutagenicity: No available data

Reproduction toxicity: No available data

12. Ecological information

No data available concerning environmental effects, ecostability or ecotoxicity.

Use the product according to good working practice, avoiding polluting the environment.

13. Disposal Consideration

Waste treatment: Send waste material to thermal destruction using high temperature incinerators designed to burn fluoride compounds.

Packaging treatment: Send to authorized land fills according to local laws and regulations.

14. Transport Regulations

Specific hazards product not dangerous for transportation (not classified)

Packaging information: Product is normally shipped in glass bottles.

International transport classification:

U. N. Number not assigned

Packaging group: not assigned

15. Regulatory information

EC regulations (directive 67-548 and following amendments)

Classification

Classification type: Not required

Hazard class: none

Labeling:

Trade Name:

Hazard Symbol:

Risk Phrases (R): 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases (S): 26-36 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

16. Other Information

This document completes the technical sheet of use but it does not replace it. The information contained in this document is based on our knowledge of the product at this time.

The producer can offer no guarantee as to the accuracy or exhaustiveness of the above information. All chemicals may present unforeseen risks and should be used with cautions and by trained personnel.

We can not guarantee that the risks referred to above are the only risks present. The final choice of the application of a product is thus the sole responsibility of the user.

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