

1 - IDENTIFICATION OF THE PREPARATION AND THE COMPANY/BUSINESS

Identification of the substance or preparation

Name of product: **AIRTECH MR-1 and MR-2**

Use of the substance / preparation

Article: Release Film

Company / undertaking identification

Company name: AIRTECH EUROPE Sarl

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2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: At processing temperatures above 260°C or if involved in a fire, the fluoropolymer starts to release fumes which may represent a hazard when inhaled. "Polymer fume fever" as well as eye, nose, throat and lung irritation can occur from such vapors.

Contamination of tobacco products with fluoropolymer dust must be avoided. Do not smoke into the work area.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Product class: Proprietary cast fluoropolymer film.

Hazardous ingredients: None known.

4 - FIRST AID MEASURES

Inhalation: In case of accidental inhalation of fumes from overheating or combustion, move to fresh air. Consult a physician after significant exposure (see also section 11).

Skin contact: If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn.

Eye contact: Flush eyes with water for at least 15 minutes. Consult a physician if irritation persists.

Ingestion: No need for first aid is anticipated.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water, carbon dioxide, foam, dry chemical.

Special protective equipment: In the event of fire, wear a self-contained breathing apparatus and a full protective clothing. Does not burn without an external flame. Wear neoprene gloves when handling refuse from a fire.

6 - MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL SPILLAGE

Cleaning methods: Collect material and store in a container for disposal.

7 - HANDLING AND STORAGE

Handling: Good industrial practice in housekeeping should be followed. Do not breathe dust and vapors. Do not smoke while handling this product.

Storage: Store in a cool, dry area, away from direct sunlight. Keep original packaging tightly closed until use to prevent contamination.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Technical measures: Overall room ventilation and/or local exhaust at points of fume generation to maintain levels of vapors released during hot processing below the TLV exposure limits.

Respiratory protection: None under normal usage if local exhaust ventilation is adequate. At temperatures above 260°C, toxic gaseous products may be produced. Wear an approved respirator if local exhaust is not adequate.

Skin protection: Protective gloves are required when handling hot material.

Eye and face protection: Use safety glasses with side shields as a good general safety practice.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands before handling food.

Control parameters:

Exposure limits for hydrogen fluoride (as a degradation product, percentage < 1) CAS: 7664-39-3	
ACGIH	TLV-TWA = 3 ppm (as F, Ceiling) = 2.5 mg/m ³
France (INRS)	VLE = 3 ppm = 2.5 mg/m ³
Germany (TRGS 900)	MAK = 3 ppm = 2.5 mg/m ³ MAK (STEL) = 6 ppm = 5 mg/m ³
2000/39/EC	VME = 1.5 ppm = 1.8 mg/m ³ VLE = 2.5 ppm = 3 mg/m ³
Exposure limits for hydrogen chloride (as a degradation product, percentage < 1) CAS: 7647-01-0	
ACGIH	TLV-TWA = 5 ppm (Ceiling) = 7 mg/m ³
Germany (TRGS 900)	MAK = 8 mg/m ³
France (INRS)	VLE = 5 ppm = 7 mg/m ³

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Flexible film, various colors
Odor:	None
pH:	Not applicable
Vapor pressure:	Not applicable
Solubility in water:	Insoluble.
Flash point:	Not applicable
Auto-ignition temperature (ASTM D 1929):	Not applicable
Melting point/range:	325-330 °C
Specific gravity (water = 1):	2.15

10 – STABILITY AND REACTIVITY

Stability: The product is stable under normal usage conditions.

Conditions to avoid: Heating above recommended maximum use temperatures.

Materials to avoid: None known.

Hazardous decomposition products: Toxic gaseous material (HF and fluorocarbon olefins) may be evolved above 260°C.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity: The thermal decomposition vapors of fluorinated polymers from overheating or burning may cause polymer fume fever, a temporary flu-like illness with fever, chills and sometimes tightness in the chest. It will appear two or more hours after exposure and will be of approximately 48 hours duration. Smokers should avoid contamination of tobacco products, and should wash their hands before smoking.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available. Aquatic toxicity is expected to be low based on insolubility in water.

13 - DISPOSAL CONSIDERATIONS

Where possible, recycling is preferred to landfill or incineration. Can be landfilled, when authorized by local regulations. Can be incinerated at temperatures above 800°C using a scrubber to remove hydrofluoric acids from combustion products, if in compliance with local regulations.

14 - TRANSPORT INFORMATION

Not classified as hazardous under transport regulations (ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport).

15 - REGULATORY INFORMATION

This product was classified in compliance with the directive known as <All preparations> 88/379/EEC and its adaptations. The product as shipped is not subject to labeling according to EC directives.

16 - OTHER INFORMATION

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. The information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations but all statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Changes to MSDS from previous issue date :

Change in the product designation