

1 - IDENTIFICATION OF THE PREPARATION AND THE COMPANY/BUSINESS**Identification of the substance or preparation**Name of product: **DAHLAR® RELEASE BAG 500****Use of the substance / preparation**

Article: Bagging Film

Company / undertaking identification

Company name: AIRTECH EUROPE Sarl

Street/POB No.: Z.I. Haneboesch

State/city/postal code: L-4562 DIFFERDANGE

Telephone: +352-582282-1

Telefax: +352-584935

Dept./responsible for information:

E-mail: sales@airtech.lu

Emergency telephone

+352-582282-1 (8.00am . 5.00pm CET)

2 - HAZARDS IDENTIFICATION**Classification:**

This product is a plastic film. It is not hazardous according to article 31 and Annex II of the REACH Regulation.

Critical hazard to man and environment:

At elevated processing temperatures or if involved in a fire, the fluoropolymer starts to degrade and emit vapors which may represent a hazard when inhaled. 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:** Tetrafluoroethylene-Ethylene Copolymer (ETFE) combined with nylon**Colorants:** Various heavy metal free organic and inorganic pigments**Hazardous ingredient:**

CAS-Number	EC-Number	Chemical name	Content	Symbol	R-phrases
105-60-2	203-313-2	ϵ -caprolactam	< 2%	Xn	20/22-36/37/38

4 - FIRST AID MEASURES**Skin:** If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn.**Eyes:** None needed under normal usage. If material comes in contact with eye, flush eyes with water for 10 to 15 minutes while holding eyelids apart.**Inhalation:** None needed under normal usage. Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician after significant exposure.**Ingestion:** Not a probable route of exposure.**5 - FIRE-FIGHTING MEASURES****Suitable extinguishing media:** Water, carbon dioxide, foam, dry chemical.**Extinguishing media which must not be used for safety reasons:** High power water jet.**Unusual fire and explosion hazards:** Combustible. Molten film at higher temperatures can ignite and will burn.

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Special protective equipment: In the event of fire, wear an approved positive pressure self-contained breathing apparatus and full protective clothing.

6 - ACCIDENTAL RELEASE MEASURES

Environmental precautions: Do not allow to enter ground water, sewage or drains.

Methods for clean-up: Collect and store into containers for disposal.

7 - HANDLING AND STORAGE

Handling: Good industrial practice for handling of chemical products should be followed. Provide adequate ventilation, and local exhaust as needed.

Storage: Store in a cool, dry area, away from direct sunlight, at 20-25°C and 50-55% relative humidity. Keep original packaging tightly closed until use to prevent moisture absorption and contamination.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limit values:

CAS No.	EC No.	Chemical name	Type	Value
105-60-2	203-313-2	ϵ -caprolactam	WEL-TWA	1 mg/m ³ (dust only)
			WEL-STEL	3 mg/m ³ (dust only)
			WEL-TWA	10 mg/m ³ (dust and vapour)
			WEL-STEL	20 mg/m ³ (dust and vapour)
			WEL (Europe) 8-hour TWA	10 mg/m ³
			WEL (Europe) STEL	10 mg/m ³

Exposure controls: Overall room ventilation and/or local exhaust at points of fume generation in the work area.

Occupational exposure controls:

Respiratory protection: None under normal usage.

Hand protection: Protective gloves according to EN 407 are required when handling hot material.

Glove material: nitrile rubber

Eye protection: Use tightly sealed safety glasses according to EN 166.

Hygiene measures: Wash hands before handling food and at the end of work.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Orange thin film
Odor:	None
pH:	Not applicable
Vapor pressure:	Not applicable
Solubility in water:	Insoluble.
Flash point:	Not applicable
Auto-ignition temperature (ASTM D 1929):	> 500°C
Melting point/range:	250-270 °C
Density:	1.35-1.45 g/cm ³

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10 - STABILITY AND REACTIVITY

Combustibility: Does not burn without an external source of fuel.

Conditions to avoid: Heating above 230° C without adequate ventilation. Will decompose above 270°C.

Materials to avoid: Incompatible or can react with molten alkali metals and interhalogen compounds

Hazardous decomposition products: Toxic vapors, gases or particulates, fluorinated olefins, hydrogen fluoride, carbonyl fluoride, perfluoroisobutylene.

Additional information: The product is stable at the handling and storage conditions recommended per § 7 of the safety data sheet and under normal processing conditions.

11 - TOXICOLOGICAL INFORMATION

Inhalation: The thermal decomposition vapors of fluorinated polymers from overheating or burning may cause irritation of the respiratory system and temporary lung irritation effects with cough, discomfort, difficulty breathing or shortness of breath, nose and throat pain. They may also cause polymer fume fever, a temporary flu-like illness with fever, chills and sometimes cough increased heart rate, nausea and headache. Symptoms usually appear after 2 hours and decline within the next 36 to 48 hours. Acute or chronic overexposure to vapors can injure the lungs, liver and kidneys. Individuals with preexisting diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures from thermal decomposition products.

Smokers should avoid contamination of tobacco products, and should wash their hands before smoking.

Skin contact: The thermal decomposition vapors may cause skin irritation. Signs/symptoms may include abrasion, redness and itching. Thermal burns may cause intense pain, redness and swelling, tissue destruction.

Eye contact: Vapors from heated material may cause severe eye irritation with redness, swelling, tearing, hazy vision and conjunctivae. Thermal burns may cause severe pain, redness and swelling, tissue destruction.

Ingestion: No adverse health effects are expected from swallowing this material.

12 - ECOLOGICAL INFORMATION

Ecotoxicity: Water hazard class: 1 = mild water pollutant

Persistence and degradability: Product is not biodegradable. The insoluble part can be disposed of mechanically in suitable waste water cleaning plants.

Additional ecological information: Do not allow to enter ground water, sewage or drains.

13 - DISPOSAL CONSIDERATIONS

Disposal recommendations: Like most thermoplastics, the product can be recycled. Where possible, recycling is preferred to landfill or incineration. Disposal of the product and the packaging must be done in compliance with local, state and federal regulations.

European waste key numbers: 070213 = Plastic waste

Contaminated packaging: Waste key number 150101 . Paper and cardboard packaging.

Waste key number 150102 . Plastic packaging.

14 - TRANSPORT INFORMATION

Not classified as a hazardous material with respect to transportation regulations (ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport).

15 - REGULATORY INFORMATION

Classification:

Code letter and hazard symbol: not applicable.

R phrase (s): not applicable.

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S phrase (s): not applicable.

National regulations Ę EC member states:

Volatile organic compounds (VOC): 0% by weight.

National regulations Ę USA:

NFA Hazard rating:

Health: 0 (Minimal)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

16 - OTHER INFORMATION

R phrase (s): R20/22 = Harmful by inhalation and if swallowed.
R36/37/38 = Irritating to eyes, respiratory system and skin.

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.

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