EU SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH)

WRIGHTLON® 5200

1 - IDENTIFICATION OF THE PREPARATION AND THE COMPANY/BUSINESS

Identification of the substance or preparation

Name of product: **WRIGHTLON® 5200 Blue and Red**

Use of the substance / preparation

Article: Release 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

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Dept./responsible for information:

E-mail: sales@airtech.lu

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+352-582282-1 (8.00am – 5.00pm CET)

2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: 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 vapors must be avoided. Do not smoke into the work area.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Product class: Tetrafluoroethylene-Ethylene Copolymer (ETFE)

CAS: 68258-85-5 Percentage: > 98

Colorants: Various heavy metal free organic and inorganic pigments

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: Wear recommended protective equipment when cleaning up the spill. 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 230°C , toxic gaseous products may be produced. Provide good ventilation or an air purifying respirator with dust/mist cartridge.

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 Particulates (respirable dust)	
ACGIH	TLV-TWA = 3mg/m³
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/m³
France (INRS)	VLE = 3 ppm = 2.5 mg/m³
Germany (TRGS 900)	MAK = 3 ppm = 2.5 mg/m³ MAK (STEL) = 6 ppm = 5 mg/m³
2000/39/EC	VME = 1.5 ppm = 1.8 mg/m³ VLE = 2.5 ppm = 3 mg/m³
Exposure limits for carbonyl fluoride (as a degradation product, percentage< 1) CAS: 353-50-4	
ACGIH	TLV-TWA = 2 ppm TLV-STEL = 5 ppm
RTECS, 25044	LC50/inhalation/1h/rat = 360 ml/m³
France (INRS)	VME = 2 ppm = 5 mg/m³
Exposure limits for perfluoroisobutylene (as a degradation product, percentage< 0.01) CAS: 382-21-8	
ACGIH	TLV-TWA = 0.01 ppm (ceiling) = 0.083 mg/m³

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue or red 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:	250-280 °C
Specific gravity:	1.7-1.76

10 – STABILITY AND REACTIVITY

Stability: The product is stable at storage conditions recommended per § 7 of the safety data sheet and under normal usage conditions.

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 coumpounds

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

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. Symptons 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/symptons 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

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

13 - DISPOSAL CONSIDERATIONS

Like most thermoplastics, the product can be recycled. Where possible, recycling is preferred to landfill or incineration. Can be landfilled, when authorized by local regulations. Can be incinerated using a scrubber to remove hydrogen fluoride and other acidic 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 examines 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.