

MATERIAL SAFETY DATA SHEET

PRODUCT: FastRise-DS Thermo-setting Pre-Preg

Developed by: ajk
Page 1 of 4

Initial Issue: May 26, 2011
Current Issue: May 26, 2011

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: FastRise DS Thermo-setting Pre-Preg

Address/Phone No. Taconic
136 CoonBrook Road
Petersburgh, NY. 12138
Phone number: USA – 518-658-3202
Emergency phone number: USA – (CHEMTREC) 800-424-9300

Product Description: Thermo-setting Pre-Preg.

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS number</u>	<u>Exposure Limits</u>	<u>% by Wt.</u>
Amorphous Silica (embedded within coating)	7631-86-9	**OSHA PEL – 80 mg/m ³	50 – 70
Glass fiber	65997-17-3	OSHA PEL – 15 mg/m ³ ACGIH TLV – 5 mg/m ³	2 - 15
Polytetrafluoroethylene	9002-84-0	Not listed	5 - 20
Proprietary (non-RCRA/DOT regulated)	-----	Not listed	5 - 20

**Dust values shown – (e.g., if product is sanded/cut)

3. HAZARDS IDENTIFICATION

Emergency Overview

Use of this product is not normally considered hazardous however if cut, sawed, sanded, etc., dust may be generated which includes particulate that may irritate the lungs. Elevated temperatures above 300-degrees C, may cause evolution of particulate matter, which can cause “polymer fume fever”, a temporary condition. May cause eye irritation and respiratory irritation. Moving the individual to fresh air will alleviate the symptoms. Elevated temperatures above 400 degrees C, will result in thermal decay of PTFE and may release carbonyl fluoride which hydrolyses to hydrogen fluoride and carbon dioxide in air by reacting with moisture. Avoid exposure; provide supplemental fresh air to individual exposed.

Potential Health Effects:

EYE: Normally none however if product is heated above 300-degrees C, air emissions may cause temporary irritation (tears, blurred vision, and redness). Rinsing eyes with clean water will alleviate effects. See physician.

SKIN: Normally none however if dust is generated in the use of this product, wash skin with normal soap and water. Additionally, if product is heated above 300 degrees C, air emissions may cause skin irritation. Washing skin with soap and water will alleviate symptoms. See physician.

MATERIAL SAFETY DATA SHEET

PRODUCT: FastRise-DS Thermo-setting Pre-Preg

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Page 2 of 4

Initial Issue: May 26, 2011

Current Issue: May 26, 2011

INGESTION: Normally not a concern (since it is a sizable solid). Swallowing small amounts of this product is unlikely to cause harmful effects. See physician.

INHALATION: Normally not a concern, however if the product is cut, sawed, etc., dust may be created. Appropriate respiratory protection is warranted. Additionally, if the product is heated above 300 degrees C, it may create air emissions that cause temporary irritation to lungs. Breathing moderate amounts of semi-combusted material during thermal degradation may result in a loss of breathing comfort. Symptoms may include tightness of the chest, difficult breathing and coughing. Extended exposure may produce "polymer fume fever", a temporary condition. Moving the patient to fresh air will alleviate the symptoms. See physician.

CHRONIC (CANCER) INFORMATION: No known data available.

TERATOLOGY (BIRTH DEFECT) INFORMATION: No known data available

REPRODUCTIVE INFORMATION: No known data available

POTENTIAL ENVIRONMENTAL EFFECTS: Generally, very stable except under extreme heat (>300 C).

4. FIRST AID MEASURES

EYE: Immediately flush eyes with water for at least 15 minutes. Get medical attention

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: If swallowed, get medical attention.

INHALATION: Remove patient from exposure, Remove to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: FLASHPOINT: >400 Degrees C

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition of PTFE above 400-degrees C, can create Carbonyl fluoride, which with air and moisture, hydrolyses to Hydrogen Fluoride and Carbon Dioxide. Other PTFE degradation products include; perfluoroisobutylene, tetrafluoroethylene, hexafluoropropylene, carbon monoxide and trifluoromethane.

EXTINGUISHING MEDIA: Use appropriate extinguishing media for surrounding products.

FIRE FIGHTING INSTRUCTIONS: Use full bunker gear and respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

MATERIAL SAFETY DATA SHEET

PRODUCT: FastRise-DS Thermo-setting Pre-Preg

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Page 3 of 4

Initial Issue: May 26, 2011

Current Issue: May 26, 2011

Solid – collect with hands, broom, shovel and place in non-hazardous waste collection container for later disposal.

7. HANDLING AND STORAGE

PTFE laminated products present minimal hazards to people handling them in accordance to their operating and storage specifications. The primary health hazard associated with this product is the inhalation of thermal decomposition products when product is subjected to temperatures greater than 300 degrees C due to accidental fire, unintended use or inappropriate disposal practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Normally none are recommended. If however, cutting, sawing sanding, etc. of the product is necessary, a properly designed dust collection system is recommended at the source of cutting.

RESPIRATORY PROTECTION: Not required for normal use of the product. For emergency conditions where thermal decomposition of product is occurring, self-contained breathing apparatus is recommended. If working in a dusty environment, wear a NIOSH/MSHA approved dust respirator.

SKIN PROTECTION: Due to basic product handling processes, gloves – of any abrasion strength, are recommended to minimize cuts due to handling the product.

EYE PROTECTION: Due to basic product handling processes, protective eye wear (i.e., safety glasses) are recommended to minimize particulate entry.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical Form – Solid, cloth-like

Boiling Point – N/A

Specific gravity - >1.2

PH – N/A

Odour - None

10. STABILITY AND REACTIVITY

STABILITY: Very stable

CONDITIONS TO AVOID: Keep away from flames and spark producing equipment

INCOMPATIBILITY: None

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition of PTFE above 400-degrees C, can create carbonyl fluoride which with air and moisture, hydrolyses to Hydrogen Fluoride and Carbon Dioxide. Other PTFE degradation products are; perfluoroisobutylene, tetrafluoroethylene, hexafluoropropylene, carbon monoxide and trifluoromethane.

11. TOXICOLOGICAL INFORMATION

MATERIAL SAFETY DATA SHEET

PRODUCT: FastRise-DS Thermo-setting Pre-Preg

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Page 4 of 4

Initial Issue: May 26, 2011

Current Issue: May 26, 2011

No known data

12. ECOLOGICAL INFORMATION

No known data

13. DISPOSAL INFORMATION: Land-filling or incineration under approved, authorized controlled conditions is acceptable for disposal. Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

No known restrictions

15. OTHER REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA: Individual chemistry listed on TSCA chemical Inventory

SARA Title III: Base material not listed

European Union: RoHS and ELV compliant