A5000

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

PRODUCT NAME: A5000 Release Film (Violet, White, Clear, Red)

USE OF SUBSTANCE/PREPARATION:
RECOMMENDED USE: High elongation FEP Fluorocarbon Release Films, Plain and Perforated.

MANUFACTURER: Cytec Process Materials
12801 Ann Street
Santa Fe Springs, CA 90670

FOR MORE INFORMATION CALL: 562-906-3300
IN CASE OF EMERGENCY CALL: 562-906-3300

2. HAZARDS IDENTIFICATION


Route of Entry: Skin and eye contact
Target Organs: None
Inhalation: Not anticipated under recommended usage conditions
Skin Contact: Not anticipated under recommended usage conditions
Eye Contact: Not anticipated under recommended usage conditions
Ingestion: Not anticipated under recommended usage conditions
Carcinogenic Status: Not considered carcinogenic in its normal state by NTP, IARC, and OSHA
3. HAZARD IDENTIFICATION

COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS:

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>% of Ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEP Copolymer (Fluorinated Ethylene Propylene Copolymer)</td>
<td>25067-11-2</td>
<td>&gt;99%</td>
</tr>
<tr>
<td>Inert Pigment (heavy metal free)</td>
<td>N/A</td>
<td>&lt;1%</td>
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</tbody>
</table>

This product as supplied is not considered hazardous as defined in the US Code of Federal Regulations, 29CFR 1910.1200. This product is considered an article as supplied for its intended and foreseen use.

All components appear on TSCA Inventory. This product contains no substances at or above the reporting threshold under Section 313 of Title III of the US EPA Superfund Amendments and Reauthorization Act of 1986 and US Code of Federal Regulations, 40CFR part 372, based on available data.

4. FIRST AID MEASURES

Inhalation: Not anticipated under recommended usage conditions. May cause influenza like symptoms if thermal decomposition products are inhaled ("polymer fume-fever"), chills, fever, and headaches. Avoid contamination of tobacco products. Remove victim to fresh air. If not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Skin Contact: Not anticipated under recommended usage conditions. For hot product, immediately immerse in or flush affected area large amounts of cold water. Cover with clean cotton sheeting or gauze and seek medical advice.

Eye Contact: Not anticipated under recommended usage conditions. If necessary, flush eyes with plenty of water. If symptoms persist or injury is suspected, seek medical advice.

Ingestion: Not anticipated under recommended usage conditions.

Advice to Physicians: Expect influenza-like symptoms if thermal decomposition products are inhaled: chills, fever, headache, shortness of breath, coughing. This is known as polymer fume-fever and will pass after 24 to 48 hours providing no further exposure occurs.
5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point (Method Used): Does not flash (N/A)
Self Ignition Temperature (ASTM D1929): >932°F (500°C)
UL-94 Flammability Rating: N/A
Extinguishing Method: Water, foam, dry chemical, CO2
Limiting Oxygen Index: >95
Extinguishing Media: Water, foam, Dry chemical, CO2
Special Fire Fighting Procedures: Use self-contained breathing apparatus
Unusual Fire and Explosion Hazards: Does not burn without external source of fuel. Fluoropolymers can increase the relative toxic properties of the gases evolved during a fire.

6. ACCIDENTAL RELEASE MEASURES

No specific measure necessary. Prevent material from entering drains or water courses.

7. HANDLING AND STORAGE

Handling Precautions: Use normal personal hygiene and good housekeeping. Avoid contamination of cigarettes or tobacco with dust from this material. Do not use a torch to clean this material from equipment without local exhaust ventilation and respirator.

Storage Requirements: Store in a cool, dry area, away from sources of ignition. Above 230 °C (446 °F), some decomposition of FEP products can be expected with evolution of gaseous and particulate products, which are toxic if inhaled. This can give rise to characteristic syndrome with influenza type symptoms known as “polymer fume”
8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: Ensure good ventilation or exhaust if there is the possibility of fumes being evolved. Not required if the material is used within specified processing parameters.

Environmental Exposure Control: No specific measures necessary.
Respiratory Protection: N/A
Hand Protection: No specific measures necessary.
Eye Protection: No specific measures necessary.
Skin Protection: Heat resistant clothing and skin covering when working with hot product. Do not smoke while handling material. Keep tobacco products away from sources of contamination: Hands and clothes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent and translucent film, tubing, or rod
Physical Status: Solid
Odor: Odorless
pH: N/A
Vapor Pressure: N/A
Vapor Density: N/A
Boiling Point: N/A
Freezing/Melting Point: 260°C (500°F)
Solubility: Insoluble
Spec. Grav./Density: 2.12-2.17
Ignition Temperature: >500°C (932°F)
10. STABILITY AND REACTIVITY

Stability: Stable. Thermal degradation can begin at 230°C (446°F)

Conditions to avoid: Will burn in atmosphere of 95% oxygen when an ignition source is present.

Materials to avoid (Incompatibility): Reacts with molten alkali metals and interhalogen compounds.

Hazardous Decomposition Products: Thermal decomposition will evolve hydrofluoric acid, carbonyl fluoride and other perfluoroolefins.

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Reference Section 2
Chronic Toxicity / Carcinogenicity Effects: None known
Genotoxicity: N/A
Reproductive / Developmental Toxicity: N/A
Skin sensitization: N/A
Other Data: None

12. ECOLOGICAL INFORMATION

No known harmful effects on the environment

13. DISPOSAL CONSIDERATIONS

Clean material may be recycled.Dispose of Fluoropolymer material as a solid waste according to local regulations. Dispose of packaging as solid waste according to local regulations. It can be incinerated only if the HF effluent can be extracted from the fluegases. This information only relates to uncontaminated product. If used in a process, which contaminates product, then disposal considerations should be re-evaluated.
14. TRANSPORT INFORMATION

No special precautions to be aware of under 1907/2006/EC.

US DOT Hazard Class: Not regulated
US DOT ID Number: Not applicable
UN Proper Shipping Name: None
UN Class: None
UN Packaging Group: None
Marine Pollutant: Not applicable
Classification for Air Transportation (IATA): Consult current IATA regulations prior to shipping by air.

15. REGULATORY INFORMATION

There is no known regulatory requirements associated with this material in the form supplied based on currently available data.

16. OTHER INFORMATION

Prepared By:
Engineering and Quality Assurance

Bibliography:
- Directive EEC 67/548 and following adaptations
- Directive 1999/45/EC, as amended
- Directive 76/769/EEC and following amendments
- Directive 2001/58/EC
- EINECS/ELINCS
- 1907/2006/EC

Current Issue Date: 02/22/13
Previous Issue Date: 02/13/13