Product Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Numbers/Series:
NORTON® Films—R129, R131, R133, R137 colors

Other/Generic Names: Extruded PTFE film, Unsintered Extruded PTFE film, Extruded Teflon® film

Product Use: Electrical insulation, wire and cable manufacturing

Manufacturer:
Saint-Gobain Performance Plastics
14 McCaffrey St., PO Box 320
Hoosick Falls, NY 12090-0320

For More Information:
Product Safety Department: (518) 686-7301
(8 AM to 5 PM, Eastern Time)

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polytetrafluoroethylene resin (PTFE)</td>
<td>9002-84-0</td>
<td>98.5-99.0%</td>
</tr>
<tr>
<td>Pigments</td>
<td>—</td>
<td>1.0-1.5% (10k-15k ppm)</td>
</tr>
<tr>
<td>Cadmium content</td>
<td>—</td>
<td>&lt;100 ppm</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>7727-43-7</td>
<td>&lt;0.1%</td>
</tr>
</tbody>
</table>

Note: The above product(s) are considered “articles” according to OSHA Hazard Communication Standard 29 CFR 1910.1200 and, as such, are exempt from the material safety data sheet provisions of 29 CFR 1910.1200 (G) (6). As a courtesy to the customer, Saint-Gobain Performance Plastics has prepared this product safety data sheet to provide appropriate safety and handling information. These products are considered non-hazardous when used according to accepted practices for the intended use.

3. HAZARDS IDENTIFICATION

Emergency Overview: Material is non-toxic, insoluble, chemically inert, and non-biodegradable. Solid material will not support combustion, but if other fuel is present, decomposition products will react at about 1275°F, producing potentially toxic gaseous products.

Potential Health Hazards:

SKIN: None known
EYES: Not a likely route of entry
INHALATION: Inhalation of fumes from burning or heating over 500°F (260°C) may cause polymer fume fever. This presents flu-like symptoms which may include chills and fever. Symptoms may not appear for several hours after exposure, and normally disappear within 24 hours.

INGESTION: Not a likely route of entry
DELAYED EFFECTS: None known

Ingredients found on one of the OSHA-designated carcinogen lists are listed below:

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>NTP Status</th>
<th>IARC Status</th>
<th>OSHA Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium compounds</td>
<td>Group 2</td>
<td>Group 2A</td>
<td>1910.1027</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

N/A for material as supplied at room temperature.

Processing at high temperature may generate fumes, which can cause flu-like symptoms (polymer fume fever). Remove to fresh air, consult physician if severe.

Note to Physicians: This product is essentially inert and nontoxic. However, if it is heated at too high a temperature or it is burned, gases may be released. Patients who have been exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal, asphyxia (carbon dioxide replacing oxygen) is a possibility. As with any fire, irritant gases may have been formed. If patients may have inhaled high concentrations of irritating fumes, they should be monitored for delayed onset pulmonary edema.

5. FIRE FIGHTING MEASURES

FLASH POINT: N/A
AUTO IGNITION TEMPERATURE: N/A
FLAMMABLE LIMITS IN AIR (% BY VOL.): N/A, solid material
EXTINGUISHING MEDIA: Use media appropriate to primary source of fire.

UNUSUAL FIRE HAZARDS: Material is incombustible, but if other fuel is present, decomposition products will burn at about 1275°F, producing toxic and corrosive gaseous products.

6. ACCIDENTAL RELEASE MEASURES

N/A, solid material

7. HANDLING AND STORAGE

Store and handle using good warehouse practices. Avoid excessive temperatures and high humidity.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Use appropriate NIOSH-approved respirator in presence of decomposition fumes.

EYES AND FACE: Use of safety glasses is recommended.

HANDS, ARMS, AND BODY: N/A

OTHER CLOTHING AND EQUIPMENT: N/A

Exposure Guidelines

Guidelines exist for the following ingredients:

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>Other Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium compound as Cd, CAS #7440-43-9</td>
<td>0.01 mg/m³ as dust, total; 0.002 mg/m³ as respirable dust; 8 hr. TWA</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Barium sulphate</td>
<td>10 mg/m³ as dust, 8 hr. TWA</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Other exposure limits for the decomposition products normally associated with product use are as follows: N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Pigmented, soft, waxy feeling plastic film

PHYSICAL STATE: Solid

MOLECULAR WEIGHT: N/A

CHEMICAL FORMULA: [C₂F₄]n (resin pigment N/D)

ODOR: Odorless

SPECIFIC GRAVITY: 1.5 - 1.9

SOLUBILITY IN WATER: Insoluble

pH: N/A

BOILING POINT: 342°C

MELTING POINT: N/A

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

EVAPORATION RATE: N/A

% VOLATILES: N/D

FLASH POINT: N/A

10. STABILITY AND REACTIVITY

NORMALLY STABLE? Stable

INCOMPATIBILITIES: Strong oxidizers, acids, bases

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce toxic and corrosive gaseous products.

HAZARDOUS POLYMERIZATION? Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS: No acute effects have been identified.

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS: No delayed or chronic effects have been identified.

OTHER DATA: N/A

12. ECOLOGICAL INFORMATION

These materials are chemically unreactive, non-toxic, non-water soluble, and non-biodegradable.

13. DISPOSAL CONSIDERATIONS

OTHER DISPOSAL CONSIDERATIONS: Dispose in an approved landfill or by incineration, in compliance with federal, state, and local regulations.

14. TRANSPORT

US DOT HAZARD CLASS: N/A

US DOT ID NUMBER: N/D

15. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA)

TSCA INVENTORY STATUS: All components are listed on the TSCA Inventory.

OTHER TSCA ISSUES: None

SARA Title III / CERCLA

Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs) exist for the following ingredients:

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>SARA/CERCLA</th>
<th>SARA EHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Spills/releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (1-800-424-8802) and to your Local Emergency Planning Committee. SECTION 311 HAZARD CLASS: N/D

SARA 313 Toxic Chemicals

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-43-9</td>
<td>Pigment compounds as Cd</td>
<td>1.0-1.5 &lt;100 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cd content</td>
<td>N/A</td>
</tr>
</tbody>
</table>
State Right to Know
In addition to the ingredients found in section 2, the following are listed for state right-to-know purposes:

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

ADDITIONAL REGULATORY INFORMATION: N/A
WHMIS CLASSIFICATION (CANADA): N/D
FOREIGN INVENTORY STATUS: N/D

16. OTHER INFORMATION

CURRENT ISSUE/REVIEW DATE: 8/24/09
PREVIOUS ISSUE/REVIEW DATE: 5/15/07

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:
- Added R137 products.
- Added hazardous material content information for RoHS compliant pigments.
- Changed MSDS form requires additional information.

OTHER INFORMATION: None

PUBLISHED BY: Document Control Department, Saint-Gobain Corporation

MSDS NO. AFF-1684
N/D=not determined
Issue/Review date: 8/09

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