Material Safety Data Sheet
Product Name: ORIENTED POLYSTYRENE SHEET AND FILM
ID: 1388

*** Section 1 - Chemical Product and Company Identification ***

Chemical Formula:  Styrene Resin Blend
Product Use:  Food and Non Food Related packaging
Other Designations:  OPS

MULTI PLASTICS, INC.
7770 N Central Drive
Lewis Center, OH 43035

Manufacturer/Supplier
Multi-Plastics Extrusion
600 Dietrich Ave.
Hazleton, Pa. 18201

Emergency Information:
USA: Chemtrec:  1-800-424-9300 or 1-703-527-3887

*** Section 2 - Composition / Information on Ingredients ***

Complete composition is provided below and may include some components classified as non-hazardous.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-53-6</td>
<td>Polystyrene</td>
<td>40-98</td>
</tr>
<tr>
<td>9003-55-8</td>
<td>Styrene-butadiene copolymer</td>
<td>0-60</td>
</tr>
<tr>
<td>8042-47-5</td>
<td>White mineral oil</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Colorants</td>
<td></td>
</tr>
<tr>
<td>1308-38-9</td>
<td>Chromium (III) oxide</td>
<td>0-1.6</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Proprietary colorants</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Proprietary topical coating</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

*** Section 3 - Hazards Identification ***

EMERGENCY OVERVIEW
Solid, flexible plastic. Clear or various colors. Plastic odor. Dust clouds generated during processing may be explosive. Material burns vigorously and releases a dense, black smoke.

Dust and fume from processing can cause irritation of eyes, skin, and upper respiratory tract. Contact with molten material can cause thermal burns.

POTENTIAL HEALTH EFFECTS
If dusts or fumes are generated by processing or if polymer is heated to melting:

Eyes
Can cause irritation

Skin
Can cause irritation. Contact with molten material can cause thermal burns.

Inhalation
Can cause irritation of upper respiratory tract.
Health Effects of Ingredients

As supplied, the colorants in this material are bound into the polymeric matrix and will not be released through skin contact or under anticipated conditions of use. However, if the material is processed in such a manner (i.e., grinding) that large quantities of fine dusts are generated or the material is burned, a potential for exposure to dust containing the colorants may be created.

Chromium (III) compounds Can cause irritation of eyes, skin and respiratory tract. IARC/NTP: Not classifiable as to their carcinogenicity to humans by IARC.

Medical Conditions Aggravated By Exposure to the Product and/or Components
Dust from processing: Asthma, chronic lung disease, and skin rashes.

*** Section 4 - First Aid Measures ***

First Aid: Eyes
Dust from processing: Flush eyes with plenty of water or saline for at least 15 minutes. Consult a physician.

First Aid: Skin
Dust from processing: Wash skin with soap and water for at least 15 minutes. Consult a physician if irritation persists. Molten polymer: If molten material gets on skin, cool rapidly with cold water. Do not attempt to peel material from skin. Get medical treatment for thermal burns.

First Aid: Inhalation
Dust from processing: Remove to fresh air. If unconscious or severely injured, check for clear airway, breathing and presence of pulse. Perform CPR if there is no pulse or respiration. Consult a physician.

*** Section 5 - Fire Fighting Measures ***

Flammable/Combustible Properties
Material burns vigorously and releases a dense, black smoke.

Fire/Explosion
Dust or fines dispersed in the air can be explosive.

Extinguishing Media
Use dry chemical, water spray (fog), foam or carbon dioxide extinguishing agents. Manual fire fighting may be difficult due to the presence of thick smoke.

Fire Fighting Equipment/Instructions
Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

*** Section 6 - Accidental Release Measures ***

Small/Large Spill
Use dry cleaning procedures. Recover using mechanical means.

*** Section 7 - Handling and Storage ***

Handling/Storage
Good housekeeping practices should be employed. Avoid generating dust.

*** Section 8 - Exposure Controls / Personal Protection ***

Engineering Controls
If dust is generated through processing: Use with adequate ventilation to meet the limits listed in Section 8, Exposure Guidelines.
Material Safety Data Sheet

Product Name: ORIENTED POLYSTYRENE SHEET AND FILM
ID: 1388

Personal Protective Equipment

Respiratory Protection
- If dust is generated through processing: Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional. Suggested respiratory protection: N95

Eye Protection
- Wear safety glasses/goggles to avoid eye injury.

Skin Protection
- Wear appropriate gloves to avoid any skin injury.

Exposure Guidelines

A: General Product Information
- The ACGIH and OSHA have not developed exposure limits for this product.

B: Component Exposure Limits
- ACGIH and OSHA have not developed exposure limits for any of this product's components.

*** Section 9 - Physical & Chemical Properties ***

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Density:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Odor:</td>
<td>Plastic odor</td>
</tr>
<tr>
<td>Octanol-Water Coefficient:</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Appearance:</th>
<th>Clear or colored plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH Level:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

*** Section 10 - Chemical Stability & Reactivity Information ***

Stability
- Stable under normal conditions of use, storage, and transportation.

Conditions to Avoid
- Strong oxidizers, and aromatic and chlorinated hydrocarbons.

Hazardous Decomposition
- Carbon monoxide, carbon dioxide, aldehydes and other partially oxidized hydrocarbons.

Hazardous Polymerization: Will not occur.

*** Section 11 - Toxicological Information ***

Health Effects of Ingredients
A: General Product Information: No information available for product. B:

Component Analysis - LD50/LC50
- White mineral oil (8042-47-5)
  Oral LD50 Rat: >5000 mg/kg

Carcinogenicity

A: General Product Information
- None of the components of this product are listed as carcinogenic by IARC, NTP or OSHA. References to studies are listed below.

B: Component Carcinogenicity Classifications and References
- Polystyrene (9003-53-6)
  IARC Supplement 7, 1987; Monograph 19, 1979
- Styrene-butadiene copolymer (9003-55-8)
  IARC Supplement 7, 1987; Monograph 19, 1979
- Chromium (III) oxide (1308-38-9)
  IARC Monograph 49, 1990; Supplement 7, 1987; Monograph 23, 1980; Monograph 2, 1973
**Section 12 - Ecological Information**

Ecotoxicity
A: General Product Information: No information available for product. B:
Component Analysis - Ecotoxicity - Aquatic Toxicity
White mineral oil (8042-47-5) 96 Hr LC50 Lepomis macrochirus: >10000 mg/L

Environmental Fate: No information available for product.

**Section 13 - Disposal Considerations**

Disposal Instructions
Reuse or recycle material whenever possible. Material may be disposed of at a sanitary landfill.

US EPA Waste Number & Descriptions
A: General Product Information
Not federally regulated in the U.S. if disposed of “as is.” Otherwise, characterize in accordance with applicable regulations (40 CFR 261 or state equivalent in the U.S.)

B: Component Waste Numbers
RCRA waste codes other than described under Section A may apply depending on use of product. Refer to 40 CFR 261 or state equivalent in the U.S.

**Section 14 - Transportation Information**

Special Transportation

<table>
<thead>
<tr>
<th>PSN #1</th>
<th>PSN #2</th>
<th>PSN #3</th>
<th>PSN #4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes:</td>
<td>(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proper Shipping Name:</td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UN NA Number:</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Packing Group:</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RQ:</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other - Tech Name:</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other - Marine Pollutant:</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
(1) When "Not regulated", enter the proper freight classification, "MSDS Number", and "Product Name" on the shipping paperwork.

**Section 15 - Regulatory Information**

US Federal Regulations
A: General Product Information
In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

B: Component Analysis
None of the components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA 311/312 Physical and Health Hazard Categories:
Immediate (acute) Health Hazard: No
Delayed (chronic) Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure: No
Reactive: No
Material Safety Data Sheet

Product Name: ORIENTED POLYSTYRENE SHEET AND FILM

State Regulations
A: General Product Information
No information available for product.

B: Component Analysis - State
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>CA</th>
<th>FL</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polystyrene</td>
<td>9003-53-6</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Chromium (III) oxide</td>
<td>1308-38-9</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Other Regulations
A: General Product Information
No information available for product.

B: Component Analysis - WHMIS IDL
No components are listed in the WHMIS IDL.

C: Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>DSL</th>
<th>EINECS</th>
<th>AUST.</th>
<th>MITI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polystyrene</td>
<td>9003-53-6</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Styrene-butadiene copolymer</td>
<td>9003-55-8</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>White mineral oil</td>
<td>8042-47-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Chromium (III) oxide</td>
<td>1308-38-9</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*** Section 16 - Other Information ***

MSDS History
Original: March 15, 2008
Revised:
Supersedes:

MSDS Status - Original Issue by Multi Plastics, Inc. Prepared By
Hazardous Materials Control Committee
David Broocke: 804-281-2520

Other Information
* Guide to Occupational Exposure Values-2006, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).
* Documentation of the Threshold Limit Values and Biological Exposure Indices, Sixth Edition, 1991, Compiled by the American Conference of Governmental Industrial Hygienists, Inc. (ACGIH).