

# Cleaning the Face Shield

## How to clean the face shield?

Face shields delivered to facilities should be considered non-sterile. Consult the CDC for the latest guidance on disinfectants known to be effective against COVID-19. The following cleaning materials may be appropriate:

- Soap-water
- Isopropanol (70%) wipe

The following are not compatible with the materials and **should not** be used to clean the face shields:

- Hydrogen peroxide vapor sterilization
- Autoclave
- Soak in isopropanol or other organic solvents

## Frequently asked questions

### Are the face shields intended to be reusable?

This is up to each healthcare facility to decide. Feedback from physicians and infection control groups suggests that the Face Shield product is suitable for reuse with appropriate cleaning in between patients. Each end user should determine appropriate use / reuse protocols based on a review of the product by the hospital's Infection Control group.

### Re-Use of the Face Shield

Feedback from physicians and infection control groups suggests that the Face Shield product is suitable for reuse with appropriate cleaning in between patients (see Cleaning the Face Shield). Each hospital should determine appropriate use / reuse protocols based on a review of the product by the hospital's Infection Control group.

## Are the face shields delivered sterile?

No. The face shields delivered to facilities should be considered non-sterile. Consult the CDC for the latest guidance on disinfectants known to be effective for the intended use. The following cleaning materials may be appropriate:

- Soap-water
- Isopropanol (70%) wipe

The following are not compatible with the materials and **should not** be used to clean the face shields:

- Hydrogen peroxide vapor sterilization
- Autoclave
- Soak in isopropanol or other organic solvents

## Are the face shields FDA Approved?

In the United States, Face Shields are currently considered Class 1 510(k) exempt products by the Federal Drug Administration. Based on current FDA Guidance, these Face Shields do not require FDA clearance.

### **Percurrent FDA Guidance:**

- These products are not "surgical masks" or "full face respirators". A safety data sheet with respect to the materials included in these products is provided below
- The products are not recommended for use in any surgical setting or where significant exposure to liquid, bodily or other hazardous fluids, may be expected; use in a clinical setting where the infection risk level through inhalation exposure is high (without the use of a primary barrier such as a N95 or surgical mask); and use in the presence of a high intensity heat source or flammable gas.
- The product does not make any claims of particulate filtration or possession of antibacterial or anti-viral properties



# **Skyrol® SH82 Polyester Film GHS Format Safety Data Sheet**

Issue Date 04/06/2020

Supersedes Date: 01/01/2017

## **SECTION I: IDENTIFICATION**

### **Material Identification**

SKYROL® Polyester (Polyethylene Terephthalate) Film is a registered trademark of SKC Inc. Polyester film is sometimes referred to as 'PET' film.

### **Product Description**

Single layer clear Polyester film with adhesion promoting treatment on both sides

### **Product Use**

Product uses include Industrial, Imaging, Storage and Display applications, among others.

### **Supplier Details**

#### **Manufacturer / Distributor**

SKC Inc. (Films Division)  
1000 SKC Drive  
Covington, Georgia, 30014, USA

#### **Phone Numbers**

Product Information: 678-342-1000 Fax: 678-342-1200  
Transport Emergency: 1-800-424-9300 (Chemtrec)

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## **SECTION 2: HAZARD IDENTIFICATION**

SKYROL® Polyester (Polyethylene Terephthalate) Film is not a hazardous material and is not considered dangerous according to criteria set by OSHA's GHS standard.

### **NFPA, NPCA-HMIS**

#### **NFPA Rating**

Health: 1  
Flammability: 1  
Reactivity: 0



#### **NPCA-HMIS Rating**

Health: 0  
Flammability: 1  
Reactivity: 0

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## SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

### Basic Chemical Composition

<u>Material</u>	<u>CAS Number</u>	<u>EC Number</u>	<u>Percentage</u>
SKYROL® Polyester Film is: Polyethylene Terephthalate	25038-59-9	N/A	80 - 100%
Base resin is produced from: Ethylene glycol and Dimethyl Terephthalate	107-21-1 120-61-6	 203-473-3 204-411-8	
Eye irritant (In raw material form only) or Terephthalic Acid	100-21-0	 202-830-0	
Skin/Eye/Respiratory irritant (In raw material form only)			
Silicon Dioxide	7631-86-9	202-830-0	< 5%
Other Fillers	various		< 5%
Surface Coatings	various		< 1%

Trade names and synonym prefixes denoting type of Skyrol® Films, such as SD, SG, SH, SL, SM, SP, SR, SW, and T\* suffixes for thickness such as 12u or 100ga etc., do not alter the chemical properties or the information provided herewith.

## SECTION 4: FIRST AID MEASURES

**IN ITS FINISHED FORM, THE PRODUCT IS NOT AN IRRITANT AND HAS NEGLIGIBLE HEALTH RISKS EVEN AFTER PROLONGED EXPOSURE**

**INHALATION:** If exposed to fumes from overheating or combustion, move to fresh air. Consult physician if symptoms persist.

**SKIN CONTACT:** Very unlikely for PET to have hazardous effect on skin, but it is recommended to wash hands and skin after handling. If molten PET polymer gets on skin, cool rapidly with cold water. Obtain medical attention immediately for any resulting thermal burns.

**EYE CONTACT:** Immediately flush with plenty of water for at least 15 minutes. Obtain medical attention if necessary.

**INGESTION:** Consult physician if ingested.

**NOTES TO PHYSICIANS:** Prolonged eye irritation may occur from pieces of debris sticking to the eyeball or eyelids.

## SECTION 5: FIRE FIGHTING MEASURES

Skyrol® Polyester film is a flammable solid that is combustible, if exposed to flame.

During processing, film may build up static charge.  
Static Eliminators are strongly recommended.



**FIRE AND EXPLOSIVE HAZARDS**

During combustion, hazardous byproducts are produced; these include carbon dioxide, carbon monoxide, organic acids, aldehydes and alcohols.

**EXTINGUISHING MEDIA:** Water, Foam, Dry Chemical and/or Carbon dioxide.

**FIRE EXTINGUISHING INSTRUCTIONS:** Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus with full protective equipment.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

NONE - NOT APPLICABLE

**SECTION 7: HANDLING AND STORAGE**

**HANDLING:** Thicker films may have sharp edges.  
Use appropriate Personal Protective Equipment when handling.

**STORAGE:** Shall be stored away from heat and sources of ignition.  
Avoid storage in direct sunlight and prolonged storage in high or low temperatures.  
Product will remain stable at room temperature and typical storage conditions.  
Packaging materials: Polypropylene Overwrap  
Treatment, Storage, Transportation, and Disposal must be done in accordance with applicable Regulations.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Occupational exposure limits: None.

Exposure controls: None.

**RESPIRATORY:** None

**SKIN:** Would recommend the use of gloves for extensive handling for protection against sharp edges.

**EYES PROTECTION:** None

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form:</b>	Flat film, supplied in either sheet or roll form
<b>Appearance</b>	Clear, with various levels of haze Color may include a yellow, white or blue tint
<b>Odor</b>	Odorless
<b>Melting Point</b>	256 ~ 265 °C (or lower for modified resins)
Specific Gravity	1.4 g/cc (as low as 1.2 g/cc for modified films)
Flash/Ignition Temp	497 °C
Heat of Combustion	23.5 ml/kg.
Specific Heat	1.34 KJ/kg @ 25°C (for plain films)
Thermal Conductivity	3.4 x 10 <sup>4</sup> cal/cm <sup>3</sup> .sec. <sup>0</sup> C
Solubility	Insoluble in water
Volatility	Negligible up to 300 °C
Vapor Pressure	Negligible @ 20°C (68°F)

**SECTION 10: STABILITY AND REACTIVITY****Chemical Stability**

Stable at room temperature and with typical storage conditions.

**Incompatibility with Other Materials:** Avoid contact with strong acids and/or bases, and oxidizing agents

**Decomposition:** Decomposition Temperature > 300°C (572°F)  
Decomposition products may include acetaldehyde (CAS 75-07-0), at a low level

**Polymerization:** Polymerization will not occur.

## SECTION 11: HEALTH AND TOXICOLOGY INFORMATION

Polyester film is inert in its physical state, and is non-reactive.

Skin Effect – Not considered as a skin irritant. Some films may exhibit sharp edges and/or corners (wear proper personal protective equipment, such as gloves).

Molten polymer can cause thermal burns. Wear proper personal protective equipment.

Inhalation – No adverse effects, with normal use.

Ingestion – Not expected during normal use. If ingested, seek medical attention.

### **Carcinogenic Information:**

IARC, NTP, OSHA or ACGIH list the following component(s) as carcinogens:

Material  
Titanium Dioxide (if present)



IARC NTP OSHA ACGIH  
2B

### **Toxicology Information**

#### **Animal Data**

Polyethylene Terephthalate  
Oral ALD > 10,000 mg/kg in rats

Based on insolubility of PET in water, toxicity is expected to be very low.

## SECTION 12: ECOLOGICAL INFORMATION

**Skyrol®** Polyester film is not regarded as dangerous to the environment and is expected to have no adverse effects as it is solid, low volatility and insoluble in water.

## SECTION 13: DISPOSAL METHODS

Preferred options for disposal include RECYCLING, INCINERATION (with ENERGY RECOVERY) and LANDFILL.

Treatment, Storage, Transportation, and Disposal must be done in accordance with applicable Federal/Country, District/State, and Local Regulations.

## SECTION 14: TRANSPORT INFORMATION

There are no restrictions or special conditions for shipment.  
Not regulated by DOT

**SECTION 15: REGULATORY INFORMATION****Not Regulated:**

Material is classified as an "article" under REACH legislation (registration not required).

**U.S. Federal Regulations:**

TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.

SARA Regulations Sections 313 and 40 CFR 372: This product does not contain any chemicals subject to the reporting requirements of SARA.

Clean Air Act Status: This product does not contain, and is not manufactured with ozone depleting chemicals.

TITLE III HAZARD CLASSIFICATION: Information not available.

California Proposition 65 - compliant

CONEG – Compliant

RoHS - SVHC: compliant

**SECTION 16: OTHER INFORMATION**

Trade names and synonym prefixes denoting type of Skyrol® films, such as SG, SH, SL, SM, SP, SR, SW etc., and suffixes for thickness such as 12u, 48gauge, 0.48mil, etc., do not alter the chemical and physical properties or the information provided herewith.

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or process.

This information is based upon typical technical information, believed to be reliable. It is subject to revision, as additional knowledge is gained.



## ARTICLE SAFETY DATA SHEET

Print date: 19-Jul-2016

Revision Number: 4

Revision date: 19-Jul-2016

### 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

**Trademark:**

LEXAN™ Sheet  
LEXAN™ Film  
LEXAN™ Strand  
ILLUMINEX™ sheet  
GEPAX™ Sheet  
VEROLITE™ Sheet  
XYLEX™ Film  
LEXAN EXELL™ D sheet  
MARGARD™ sheet  
PLASTECH™ Sheet  
SOUNDGLAZE™ sheet  
SUNXP™ sheet  
THERMOCLEAR-PLUS™ sheet  
THERMOCLEAR™ sheet  
THERMOCLICK™ sheet  
THERMOROOF™ sheet  
CLINIWALL™ sheet  
CARBORON™ Sheet  
CRYSTALITE™ sheet

**Product Code:**

GEN-SFS-PC

**Product Description:**

Polycarbonate based film, sheet or strand

**Product Type:**

Commercial Product

**Recommended use:**

May be used as received, processed or thermoformed to produce other articles, or as a component of other industrial products.

**Company:**

SABIC Innovative Plastics US LLC  
One Plastics Avenue  
Pittsfield, MA 01201 USA  
(413) 448-5400  
[www.sabic.com](http://www.sabic.com)

**Emergency Telephone Number:**

800-424-9300

**Emergency Transportation/CHEMTREC  
(24 HOUR):**

800 424-9300 (USA)  
+1 703-527-3887 (globally, outside USA)

**E-mail:**

[productinquiries@sabic.com](mailto:productinquiries@sabic.com)

**Website Address:**

[www.sabic.com](http://www.sabic.com)



The additives in this product (if any) are bound in a thermoplastic resin matrix. In accordance with GHS for the classification of the product, the hazard potential may be assessed with respect to the physico-chemical form and/or bioavailability of the individual components in the thermoplastic resin.

Where GHS classifications are shown below, these are based on the individual components in the thermoplastic resin matrix. Under the typical use conditions for the resin, these hazardous components are unlikely to contribute to workplace exposure. Please read the entire safety data sheet and/or consult an EHS professional for a complete understanding.

Classification

**OSHA Regulatory Status**

This product is an article, and is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS-Labeling

**Emergency Overview**

<b>Not classified</b>		
<b>Appearance:</b> Sheet, film or strand	<b>Physical State:</b> Solid	<b>Odor:</b> None or slight

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

Not applicable

Other hazards which do not result in classification:

**SABIC Emergency Overview**

- Plastic film, sheet or strand
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

**Other Information:**

OSHA, IARC and/or NTP have listed carbon, titanium dioxide, crystalline silica (quartz), respirable glass and certain heavy metals, present in some colorants and fillers, as carcinogens. If these materials are present in this product at significant quantities, they are shown in Section 2/3. These materials are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

**Processing Issues:**

Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin.

**Aggravated Medical Conditions:**

**MEDICAL RESTRICTIONS:** There are no known health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product Type** Article

For the full text of the H-statements, if mentioned in this section, see Section 16.

The non-hazardous components and exact percentage (concentration) of the composition have been withheld as a trade secret.

This product consists primarily of high molecular weight polymers which are not expected to be hazardous.

### 4. FIRST AID MEASURES

<b>If Inhalation:</b>	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
<b>On skin contact:</b>	For hot product, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.
<b>On contact with eyes:</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.
<b>On ingestion:</b>	No hazards which require special first aid measures.
<b>Precautions:</b>	Processing vapors inhalation may be irritating to the respiratory tract. If symptoms are experienced remove victim from the source of contamination or move victim to fresh air and obtain medical advice.

## 5. FIRE-FIGHTING MEASURES

<b>Autoignition Temperature:</b>	Not applicable
<b>Explosive Limits</b>	
<b>upper:</b>	Not applicable
<b>lower:</b>	Not applicable
<b>Suitable Extinguishing Media:</b>	Use dry chemical, CO2, water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools, etc.).
<b>Unsuitable Extinguishing Media for Safety Reasons:</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Hazards from Combustion Products:</b>	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments.
<b>Special Protective Equipment for Firefighters:</b>	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.
<b>Specific Hazards:</b>	Take precautionary measures against static discharges. Thermal decomposition can lead to release of irritating gases and vapors. Dust formed by operations such as cutting or grinding may form an explosive mixture in air.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Clean up:</b>	Gather and store in a closed container pending a recyclability or waste disposal evaluation.
<b>Personal Precautions:</b>	See section 8.
<b>Environmental Precautions:</b>	Dispose of in compliance with all Federal, state and local laws and regulations.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. Accumulation of waste films, sheets and/or masking may create a slipping hazard.
<b>Storage:</b>	Keep away from heat sources and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering Measures to Reduce Exposure:</b>	Handle in accordance with good industrial hygiene and safety practices. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.
<b>Hand Protection:</b>	Protective gloves should be worn
<b>Eye Protection:</b>	Safety glasses
<b>Respiratory Protection:</b>	When using this product at elevated temperatures, implement engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid, gases, and particulate matter) if processing vapors are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.
<b>Body Protection:</b>	Long sleeved clothing
<b>Hygiene Measures:</b>	When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Sheet, film or strand
<b>Color:</b>	Same as color code
<b>Odor:</b>	None or slight
<b>Melting point/range:</b>	This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
<b>Autoignition Temperature:</b>	Not applicable
<b>Explosive Limits</b>	
Not applicable	<b>upper:</b>
Not applicable	<b>lower:</b>

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Conditions to Avoid:</b>	Do not exceed maximum temperatures recommended in the product literature.
<b>Hazardous Decomposition Products:</b>	Process vapors under recommended processing conditions may include trace levels of hydrocarbons, phenols, alkylphenols, diarylcarbonates.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

<b>Other information on acute toxicity:</b>	There are no toxicological hazards associated with this product
<b>Chronic Toxicity:</b>	There are no toxicological hazards associated with this product.
<b>Special Studies:</b>	No Information.

## 12. ECOLOGICAL INFORMATION

<b>Other information:</b>	Not expected to end up in the environment under conditions of intended use and appropriate disposal or recycling.
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## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal:</b>	Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine waste classification.
<b>US EPA Waste number:</b>	None

## 14. TRANSPORT INFORMATION

<b>Transport Classification:</b>	Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.
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DOT

ADR/RID/ADN

IMDG

ICAO

IATA-DGR

MEXICO

CANADA/TDG

ANTT 420

## 15. REGULATORY INFORMATION

### **International Inventories:**

Film, sheet and strand products are articles, exempt from registration or notification in those countries that have national chemical inventories.

### **CERCLA/SARA 311/312/313:**

This product is a non-hazardous article and therefore not subject to the requirements of Title III of SARA (Emergency Planning and Community Right-To-Know Act).

### **Canada:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

### **WHMIS hazard class:**

Non-controlled, article

### **RoHS EU Directive 2011/65/EU:**

This product is in compliance with the EU RoHS Directive 2002/95/EC. The following are not intentionally added during the manufacture of this product: a - cadmium and its compounds, b - lead and its compounds, c - mercury and its compounds, d - hexavalent chromium compounds, e - polybrominated biphenyls (PBBs), f - polybrominated diphenyl ethers (PBDEs, including Deca-BDE).

### **HMIS Rating**

**Health:** 0

**Flammability:** 1

**Reactivity:** 0

## 16. OTHER INFORMATION

SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.

### **SDS Scope:**

USA: Conforms to 29 CFR 1910.1200 (2012 OSHA Hazard Communication Standard)

This document is also applicable in other countries and regions.

**Prepared by:** Product Stewardship & Toxicology

DISCLAIMER: This Safety Data Sheet [SDS] information is provided based on the Hazard Communication Regulations for your region or country and for the use of the persons required to receive this information under those regulations. The information is neither designed nor recommended for any other use or for use by any other person, including for compliance with other laws. SABIC Innovative Plastics does not warrant the suitability for use of this SDS for any other material or product not specifically identified herein. SABIC Innovative Plastics does not warrant the accuracy or authenticity of this SDS unless it has been obtained directly from SABIC Innovative Plastics, or posted or viewed on a SABIC Innovative Plastics website. Modification of this SDS, unless specifically authorized by SABIC Innovative Plastics, is strictly prohibited. This SDS is based on information that is believed to be reliable, but may be subject to change as new information becomes available. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. Since the use of this material is not under SABIC Innovative Plastics' control, each user is responsible for making its own determination as to the safe and proper handling of this material in its own particular use of this material. SABIC INNOVATIVE PLASTICS MAKES NO REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each user should read and understand this information and incorporate it into individual site safety programs as required by applicable hazard communication standards and regulations.

**End of Safety Data Sheet**

# MATERIAL SAFETY DATA SHEET



## Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: PRIMEX PLASTICS PRIME IMPAX POLYSTYRENE SHEET (High Impact Styrene Sheet)  
Supplier: PRIMEX PLASTICS CORPORATION Emergency Response Number  
1235 NORTH "F" STREET (800) 222 - 5116  
RICHMOND, INDIANA 47374

## Section 2. Composition and Information on Ingredients

CAS Number	Chemical Name
9003-55-6	Polystyrene
9003-53-8	Modified Polystyrene

## Section 3 Hazard Identification

### Emergency Overview

The Polystyrene sheet is not expected to be an inhalation hazard under normal processing conditions. If the material is processed under prolonged exposure to flame or high temperature, thermal burns to the skin may occur and toxic gases produced may irritate the respiratory system.

### Potential Health Effects

Eye, skin and inhalation due to exposure to flame (molten plastic).

### Primary Routes of Exposure

Routes of entry could include eye, skin, and inhalation due to exposure to flame (molten plastic).

### Potential Environmental Effects

If processed scrap is controlled by the customer, no negative ecological effects are expected.

## Section 4 First-Aid Measures

### Inhalation

Remove affected individual to fresh air, seek medical attention if difficulties in breathing occur.

### Skin

If skin has contact with molten material, place affected area under cold running water. Seek medical attention for removal of material from the affected area.

### Eyes

If there is contact to the eyes with molten material, rinse with plenty of water and seek immediate medical attention. If plastic fines enter the eye, rinse with water for 15 minutes and seek immediate medical attention if irritation develops.

## Section 5 Fire-Fighting Measures

Suitable Extinguishing Media Dry extinguisher, water, carbon dioxide, foam

### Protective Equipment for Fire-Fighting

Firefighters should be equipped with self-contained breathing apparatus.

### Hazardous Combustion Products

During a fire, Carbon Oxides and soot may be generated by combustion and thermal decomposition of the material.

## Section 6 Accidental Release Measures

The Polystyrene material in sheet form is not applicable for this section.

## Section 7 Handling and Storage

### Handling

Protect against flame and intense heat.

### Storage

Store in well ventilated area, avoid extreme heat and any source of ignition or open flame.

## **Section 7 Handling and Storage Continued**

### Secondary Use / Reprocessing

When reprocessing material for secondary use, ground all handling equipment. Keep material and dust produced away from high heat and flame. Use good housekeeping practices when reprocessing material.

## **Section 8 Exposure Controls and Personal Protection**

### Personal Protective Equipment

#### Respiratory Protection

During processing respiratory protection may not be necessary if ventilation is adequately provided. At excessive processing temperature, breathing protection may be required.

#### Hand Protection

Gloves may be required when processing the sheet due to sharp edges and when plastic is in the molten state.

#### Eye Protection

Safety glasses with side-shields are recommended.

#### General

Avoid contact with molten material on the skin, eyes and clothing. Handle product in accordance with good industrial hygiene and safety practices.

## **Section 9 Physical and Chemical Properties**

### Physical State and Appearance

Solid Polystyrene sheet

### Molecular Formula

$(-\text{CH}(\text{C}_6\text{H}_5)-\text{CH}_2-)_x$

### Melting/Freezing Point

>132.22 deg. C (270 deg. F)

### Specific Gravity

1.02 - 1.08 (water = 1)

VOC 0 (%)

## **Section 10 Stability and Reactivity**

### Stability and Reactivity

This product in the finished state (sheet) is stable. Avoid temperatures of 600 deg. F (316 deg. C) or above.

### Incompatibility with Various Substances

Reactive with strong oxidizing agents

### Hazardous Decomposition Products

Hazardous decomposition Products are Carbon Monoxide, Carbon Dioxide and various hydrocarbons. Chemicals that are released from exposure to extremely high temperatures (600 deg. F or higher) include Styrene Moner, Benzene, and other hydrocarbons.

## **Section 11 Toxicological Information**

### Chronic Effects on Humans

Carcinogenic Effects - classified none by NTP, none by OSHA.

### Other Toxic Effects on Humans

In plastic sheet form, not considered dangerous to humans.

## **Section 12 Ecological Information**

No information is available, but no ecological hazard is suspected.



## **Section 13 Disposal Considerations**

### Waste Information

Transfer to an approved disposal area in accordance with federal, state and local regulations.

## **Section 14 Transport Information**

### DOT Classification

Not a DOT controlled material, (US).

### Marine Pollutant

Not available but not suspected.

### Special Provision for Transport

None listed.

### TDG Classification

Not controlled under TDG, (Canada).

### ADR/RID Classification

Not controlled under ADE, (Europe).

### IMO/IMDG Classification

Not controlled under IMDG.

### ICAO/IATA Classification

Not controlled under IATA.

## **Section 15 Regulatory Information**

### HCS Classification

Not controlled under HCS (US).

### U.S. Federal Regulations

TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - Hazard identification: No products were found.

SARA 313 Toxic Chemical Notification and release reporting: No products were found.

Clean water act (CWA) 307: No products were found.

Clean water act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

### International Regulations

#### WHNIS (Canada)

Not controlled under WHMIS, (Canada).

CEPA DSL: Polystyrene sheet (General Purpose).

EINECS Not available.

#### DSCL (EEC)

Not controlled under DSCL, (Europe).

International Lists Not available.

### State Regulations

No products found. No proposition 65 chemicals present at levels that would require a warning under the California Safe Drinking Water and Toxic Enforcement Act.

**Section 16 Other Information**

Hazardous Material Information System (U.S.A)

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	

Polystyrene                      Date Prepared: June 14, 2004

The information listed within this MSDS is solely designated for the finished processed sheet. The information listed is, to the best of our knowledge, accurate and reliable. However, there is no warranty or guarantee that can be made to its accuracy, reliability or completeness. Primex will not accept liability for any loss or damage that may occur from the use of this information.

Prepared and Approved By: David Wolf  
Approval date: August 25, 2004