



MATERIAL SAFETY DATA SHEET

**PRODUCT IDENTIFICATION – HPI MSDS #112**

POLYSTYRENE

CAS NUMBER – 9003-53-6

**PRODUCT NAME:** Polystyrene

**PRODUCT USE:** Multiple uses in many applications.

**COMPANY INFORMATION**

**MANUFACTURER:** Hoehn Plastics, Inc.  
11481 West, County Road 925 South  
Poseyville, IN. 47633

**FOR MORE INFORMATION CALL:**  
Hoehn Plastics, Inc. (812)874-2612 (Monday-Friday 8:00am – 4:00pm)

**IN CASE OF EMERGENCY CALL:**  
Hoehn Plastics, Inc. (812)874-2612 (Monday-Friday 8:00am – 4:00pm)  
All Other Hours: Paul Higgins  
Plant Operations Manager  
(812)305-4628

**FOR TRANSPORTATION EMERGENCIES:**  
Enoch Carlson  
Transportation Services Manager  
(812)205-0636

**POTENTIAL HEALTH HAZARDS**

**SKIN:** May cause mechanical irritation if the product comes into contact with the skin.  
Contact with molten material may cause thermal burns.

**EYES:** May cause mechanical irritation if product comes into contact with the eyes.

**INHALATION:** Not a probable route of exposure under normal conditions of use.  
Elevated processing temperatures may generate fumes and vapors  
which may cause irritation to the nose and throat.

**INGESTION:** Not a probable route of exposure. No applicable information found.



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**POTENTIAL HEALTH HAZARDS (Continued)**

**DELAYED EFFECTS:** None known.

**CARCINOGENICITY:** OSHA – None  
National Toxicology Program (NTP) – None  
International Agency for Research on Cancer (IARC) - None

**FIRST AID**

**SKIN:** If in contact with solid material, wash with soap and water. If in contact with molten material, submerge injured area in cold water. Do not attempt to remove material adhering to the skin. Get medical attention if irritation develops or persists.

**EYES:** Flush eyes with plenty of water. Get medical attention if irritation develops or persists.

**INHALATION:** If exposed to vapors at elevated processing conditions, remove to fresh air. Get medical attention if irritation develops or persists.

**INGESTION:** Not a probable route of exposure.

**ADVICE TO PHYSICIAN:** No specific advice, treat symptomatically.

**FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

**FLASH POINT:** Not Applicable

**AUTOIGNITION TEMPERATURE:** 420 Degrees C

**UPPER FLAME LIMIT (volume % in air):** Not applicable.

**LOWER FLAME LIMIT (volume % in air):** Not applicable.

**FLAME PROPAGATION RATE (solids):** Not determined.

**OSHA FLAMMABILITY CLASS:** Combustible solid.

**EXTINGUISHING MEDIA:**

Use water fog, dry chemical, carbon dioxide or foam as appropriate for materials in surrounding fire. Avoid using direct streams of water on molten burning material as it may scatter and spread the fire.

**FIRE FIGHTING MEASURES (Continued)**



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**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Melts in proximity to fires resulting in slippery floors and stairs. Static charges on powders or powders in liquids may ignite combustible atmospheres. Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard.

See NFPA Bulletin 654, “Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids,” for safe handling procedures.

**SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:**

As in any fire, wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing. Watch footing on floors and stairs because of possible spreading of molten material.

**COMPOSITION / INFORMATION ON INGREDIENTS**

**INGREDIENT NAME**

**CAS NUMBER**

Polystyrene

9003-53-6

While this material is not considered as hazardous under OSHA regulations, the MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

**PERSONAL PROTECTIVE EQUIPMENT**

**SKIN PROTECTION:**

Not normally required. Use heat-protective clothing as needed for handling hot material.

**EYE PROTECTION:**

Wear safety glasses or goggles that conform to ANSI Z87.1 under normal conditions. Wear safety goggles and/or a full-face shield if there is potential for contact with molten material.

**PERSONAL PROTECTIVE EQUIPMENT (CONTINUED)**



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**RESPIRATORY PROTECTION:**

Not required for properly ventilated areas. If there is potential for inhalation of dust or vapor, wear a NIOSH approved respirator.

The respirator must be selected based on contamination levels and use conditions found in the workplace. Use conditions must not exceed the working limits of the respirator. The respirator must be used in accordance with the OSHA respiratory protection standard (29 CFR 1910.134).

**ADDITIONAL RECOMMENDATIONS:**

Provide safety showers and eyewash stations in close proximity to the work area.

**HANDLING AND STORAGE**

**NORMAL HANDLING:**

(Always wear recommended personal protective equipment.)

Under conditions of storage, vapors may collect in the headspace of the containers causing a sometimes pungent odor during unpacking of these products. Avoid breathing vapors when opening containers. Avoid spillage which can cause very slippery conditions on floors. Follow standard personal hygiene and housekeeping practices for an industrial environment.

**STORAGE RECOMMENDATIONS:**

To maintain product quality, store in a cool, dry area, away from direct heat or sunlight. Do not store near strong oxidizing agents and amines.

**ACCIDENTAL RELEASE MEASURES**

**IN CASE OF SPILL OR OTHER RELEASE:**

(Always wear recommended personal protective equipment.)

Avoid generating dust. Keep away from heat or flame. Collect material and place in a container for reuse or disposal. If material is molten, allow to cool. Use caution, as material may still be hot after solidification.

**Spills and releases may have to be reported to Federal and/or local authorities.**

**EXPOSURE CONTROLS**



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**ENGINEERING CONTROLS:**

General room ventilation is adequate for storage and ordinary handling. Use local exhaust at points of fume generation or if dusty conditions prevail.

**PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Solid

**ODOR:** Characteristic waxy odor.

**SPECIFIC GRAVITY:** 1.04 (Water = 1)

**SOLUBILITY IN WATER (weight %):** Negligible.

**pH:** Not applicable.

**BOILING POINT:** Not applicable

**MELTING POINT:** 270 Degrees F

**VAPOR PRESSURE:** Not applicable.

**VAPOR DENSITY** Not applicable.

**EVAPORATION RATE:** Not applicable **COMPARED TO:** Not applicable.

**% VOLATILES:** Not determined.

**FLASH POINT:** Not Available

**STABILITY AND REACTIVITY**

**NORMALLY STABLE (CONDITIONS TO AVOID)**

Normally stable. Avoid exposure to open flame or temperatures exceeding recommended processing conditions.

**INCOMPATIBILITIES:**

Strong oxidizing agents, acids, flammable materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Thermal decomposition products may include carbon monoxide, carbon dioxide, dense smoke, styrene monomer, benzene, other hydrocarbons.

**HAZARDOUS POLYMERIZATION:**

Not likely to occur.

**TOXICOLOGICAL INFORMATION**

**IMMEDIATE (ACUTE) EFFECTS:**

Oral Toxicity: LD50 not available

Inhalation Toxicity: LD50 not available

**DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:**

No data available.

**DISPOSAL CONSIDERATIONS**

**RCRA**



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**Is the unused product a RCRA hazardous waste if discarded? No.**

**If yes, the RCRA ID number is:** Not applicable.

**OTHER DISPOSAL CONSIDERATIONS:**

Dispose of in compliance with Federal, state and local government regulations. Disposal options include: recycling, incineration and landfilling.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

**TRANSPORT INFORMATION**

**US DOT REGULATIONS:** Not Regulated .

**US DOT ID NUMBER:** Not applicable.

For additional information on shipping regulations affecting this material, contact the Transportation Services Manager, number found in the Company Identification Section.

**OTHER INFORMATION**

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS, AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE, AND THE CONDITIONS OF HANDLING AND USE (OR MISUSE) ARE BEYOND OUR CONTROL, HOEHN PLASTICS, INC. MAKES NO WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. USER SHOULD SATISFY HIM OR HERSELF THAT HE/SHE HAS ALL CURRENT DATA RELEVANT TO THE PARTICULAR USE.

**OTHER INFORMATION (Continued)**

**USER RESPONSIBILITY:**

## Safety @ Hoehn Plastics – Hazard Communication Program



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This MSDS was constructed to provide Hazard Communication Information to the employees of Hoehn Plastics, Inc. Each user of this MSDS, other than an employee of Hoehn Plastics, Inc., should read and understand this information and incorporate it into individual site safety programs in accordance with other applicable hazard communication standards and regulations, and other information that may be available.

Authorized Date: 7/5/2011