

MATERIAL SAFETY DATA SHEET

MSDS #1000 (Crystal Polystyrene)
Approval Date: 12/10/98

Page 1 of 4
Print Date: 12/10/98

HUNTSMAN

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: General Purpose Polystyrene

Product Identification Number(s): 20, 50, 201, 202, 207, 212, 217, 650, 879, 1101, P8051, P8073, R100, T-50, T-738, T-745, T-817.

Manufacturer/Supplier: Huntsman Corporation, Chesapeake, VA 23320

MSDS Prepared by: Environmental Health and Safety Department, Huntsman Corp., Chesapeake, VA 23320

For Emergency Health, Safety & Environmental Information call: HUNTSMAN 757-494-2500

For Emergency Transportation Information call: CHEMTREC 800-424-9300 or HUNTSMAN 409-727-0831

For Other Information, call your Huntsman representative or the Huntsman operator 757-494-2500 (USA)

Chemical Name: Benzene, ethenyl-, homopolymer

Synonym(s): Crystal Polystyrene

Molecular Formula: (C₈H₈)_x

Molecular Weight: Not Applicable

Product Use: Plastic

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

94-100	Benzene, ethenyl-, homopolymer; Polystyrene (9003-53-6)
0-6	Mineral Oil (8042-47-5)
<1	External & Internal Lubricants (not available)

3. HAZARDS IDENTIFICATION

**CAUTION!!! POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES
MOLTEN MATERIAL WILL PRODUCE THERMAL BURNS**

HMIS Hazard Ratings: Health - 0, Flammability - 1, Chemical Reactivity - 0

NFPA Hazard Ratings: Health - 0, Flammability - 1, Chemical Reactivity - 0

NOTE: HMIS and NFPA ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms persist.

P5C002

MATERIAL SAFETY DATA SHEET

MSDS #1000 (Crystal Polystyrene)
Approval Date: 12/10/98

Page 2 of 4
Print Date: 12/10/98

Skin: If burned by contact with molten material, cool as quickly as possible. Do not peel material from skin. For general contact, wash with soap and water to remove particles.

Note to Physicians: Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from the skin is not necessary.

Ingestion: Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary. Notify medical personnel.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, dry chemical, carbon dioxide.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide.

Unusual Fire and Explosion Hazards: Fire gives off dense black smoke, carbon monoxide, and carbon dioxide. Powdered material may form explosive dust-air mixtures.

6. ACCIDENTAL RELEASE MEASURES

Stop leak, contain spill, obstruct exit to sewers, waterways, and sources of ignition. Collect into containers.

7. HANDLING AND STORAGE

Personal Precautionary Measures: No special precautionary measures should be needed under anticipated conditions of use.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials. Minimize dust generation and accumulation. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

Storage: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV): 10mg/m³ for nuisance dust
5mg/m³ for respirable dust

OSHA (USA) Permissible Exposure Limit (PEL): none ppm 8-hr TWA

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, mechanical generation of dusts, heating, drying, etc.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to be an acceptable level, an approved respirator must be worn.

Respirator Type: Dust. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

Eye Protection: It is a good industrial hygiene practice to minimize eye contact. Wear ANSI approved safety glasses with side shields. Goggles would be required for heavy dusting.

Skin Protection: It is a good industrial hygiene practice to minimize skin contact. When material is heated, wear gloves to protect against thermal burns.

Recommended Decontamination Facilities: Eye Bath, Washing Facilities

MATERIAL SAFETY DATA SHEET

MSDS #1000 (Crystal Polystyrene)
Approval Date: 12/10/98

Page 3 of 4
Print Date: 12/10/98

9. PHYSICAL AND CHEMICAL PROPERTIES

-- Physical Form:	Solid (pellet)
-- Color:	Varies with formulation
-- Odor:	none
-- Odor Threshold:	Not applicable
-- Specific Gravity:	(Water = 1): 1.04 to 1.05
-- Vapor Pressure:	Not Applicable
-- Vapor Density:	(Air = 1): Not applicable
-- Evaporation Rate:	Not applicable
-- Boiling Point:	Not applicable
-- Melting Point:	175°F- 225°F (79°C-107°C) Softens
-- Solubility in Water:	Insoluble
-- pH:	Not applicable
-- Flash Point:	Not applicable, combustible solid
-- Lower Explosive Limit:	Not applicable
-- Upper Explosive Limit:	Not applicable
-- Autoignition Temperature:	Not available
-- Sensitivity to Mechanical Impact:	Not available
-- Sensitivity to Static Discharge:	Not available
-- Volatile by Volume:	Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Material can react with strong oxidizing agents

Hazardous Polymerization: Will not occur

Hazardous Decomposition: Carbon, carbon monoxide, carbon dioxide, water. Avoid processing material over 572°F (300°C)

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation: Low hazard for usual industrial handling or commercial handling by trained personnel.

Eyes: Low hazard for usual industrial handling or commercial handling by trained personnel.

Skin: Molten material will produce thermal burns.

Ingestion: Expected to be a low ingestion hazard.

Toxicity: Oral - none Dermal - none Carcenogenicity - none

12. ECOLOGICAL INFORMATION

This material has not been tested for environmental effects. Sewer/waterway obstruction; marine life may ingest pellets, which may obstruct their digestive tract.

13. DISPOSAL CONSIDERATION

Discharge, treatment, or disposal may be subject to national, state, or local laws. Recycle, incinerate, or bury in approved landfill per local and state regulations.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

--DOT (USA) Classification: Not regulated

MATERIAL SAFETY DATA SHEET

MSDS #1000 (Crystal Polystyrene)
Approval Date: 12/10/98

Page 4 of 4
Print Date: 12/10/98

- TDG (Canada) Classification: Not regulated
- International Civil Aviation Organization (ICAO) Classification: Not regulated
- International Maritime Dangerous Goods (IMDG) Classification: Not regulated

15. REGULATORY INFORMATION

- OSHA Hazardous chemical(s) according to 29 CFR 1910.1200: None
- Material(s) known to the State of California to cause cancer: None
- Material(s) known to the State of California to cause adverse reproductive effects: None
- WHMIS (Canada) Status: Noncontrolled
- Carcinogenicity Classification (components present at 0.1% or more):
 - International Agency for Research on Cancer (IARC): Not listed
 - American Conference of Governmental Industrial Hygienists (ACGIH): Not listed
 - National Toxicology Program (NTP): Not listed
 - Occupational Safety and Health Administration (OSHA): Not listed
- Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: None
- US Toxic Substances Control Act (TSCA): All components of this product are listed on the TSCA inventory or otherwise comply with TSCA premanufacture notification requirements.

16. OTHER INFORMATION

CAUTION!!!

POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES
MOLTEN MATERIAL WILL PRODUCE THERMAL BURNS

Minimize dust generation and accumulation.

FIRST AID: Get medical attention if symptoms occur. If burned by contact with molten material, cool as quickly as possible. DO NOT PEEL FROM SKIN.

Note to Physicians: Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from the skin is not necessary.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

CAUTION: FOR MANUFACTURING, PROCESSING OR REPACKAGING BY TRAINED PERSONNEL

The information contained herein is provided for general reference purposes only. By providing the information contained herein, Huntsman Chemical Corporation make no guaranty or warranty, and does not assume any liability, with respect to the accuracy or completeness of such information, or the product results in any specific instance, and hereby expressly disclaims any implied warranties of merchantability or fitness for a particular purpose, or any other warranties or representations whatsoever, expressed or implied. Nothing contained herein shall be construed as a license to use the products of Huntsman Chemical Corporation in any manner that would infringe any patent.