

Safety Data Sheet

High Impact Polystyrene
Revision Date 01/01/2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: High Impact Polystyrene

Recommended
Product Use: Manufacture of polystyrene articles

Company: Plastic Recycling, Inc.
7601 Rockville Rd,
Indianapolis IN 46214

Telephone/ Fax: (317) 780-6100 PH
(317) 780-6110 FX

For chemical
Emergencies only, call: Chemtrec (800) 424-9300
In Mexico 01-800-681-9531

2. HAZARDS IDENTIFICATION

GHS Classification

None Listed

GHS Label elements, including precautionary statements

Hazard Pictogram None
Signal Words None

Other Information

Emergency Overview

OSHA Hazards

No known OSHA hazards

HMIS Classification

Health hazard: 0
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 0
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	EC- No.	Index-No.	Concentration
Polystyrene			
9003-53-6	500-008-9	-	87% to 95%
1,3-Butadiene, Homopolymer			
9003-17-2	-	-	1% to 5%
Mineral Oil			
8042-47-5	232-455-8	-	4% to 8%
Carbon Calcium			
1317-65-3			0% to 3%

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Normal measures for preventive fire protection. May generate explosive dust during use, use measure to avoid dust creation and build-up.

Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. May generate explosive dust in storage, use measures to avoid dust creation and build-up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Engineering Controls

Use only in areas with adequate ventilation

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid, Pellets
Color	Translucent, opaque, color
Odor	Odorless
Odor threshold	No data available
Vapor pressure	No data available
Vapor density	No data available
pH	no data available
Specific Gravity	no data available
Melting point/freezing point	no data available
Solubility(ies)	Insoluble
Initial boiling point and boiling range	No data available
Flash point	600°F (Polystyrene) No data available (Mixture)
Evaporation rate	No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Flammability (solid, gas)	No data available
Upper explosive limits	No data available
Lower explosive limits	No data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	880°F (Polystyrene) No data available (Mixture)
Decomposition temperature	no data available
Viscosity	no data available

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage conditions

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Produces dense black smoke when burning.

Materials to avoid

Organic solvents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes: no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Polystyrene)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

11. TOXICOLOGICAL INFORMATION

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards

TSCA Status

This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components

	CAS-No.
Mineral oil	8042-47-5
1,3-Butadiene, homopolymer	9003-17-2
Polystyrene	9003-53-6
Carbon Calcium	1317-65-3

New Jersey Right to Know Components

	CAS-No.
Mineral oil	8042-47-5
1,3-Butadiene, homopolymer	9003-17-2
Polystyrene	9003-53-6
Carbon Calcium	1317-65-3

California Prop. 65 Components

This Product contains, or may contain, trace amounts of a substance(s) deemed by the State of California to be known to the State to cause cancer or reproductive toxicity.

16. OTHER INFORMATION

Further information

The information and recommendations presented in this Safety Data Sheet are believed to be reliable on the date hereof. Plastic Recycling, Inc. makes no representation on its completeness or accuracy. It is the user's responsibility to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. NO REPRESENTATIONS, GUARANTIES OR WARRANTIES, either express or implied of any nature are made with respect to the information provided in this Safety Data Sheet or the product to which such information refers INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Any user's sole and exclusive remedy is a corrected Safety Data Sheet and Plastic Recycling, Inc. shall not be liable for loss, damage or expense of any nature including incidental and consequential damages. Plastic Recycling, Inc. neither assumes nor authorizes any other person to assume for it, any other or additional liability or responsibility resulting from the use of, or reliance upon, this information.

16. OTHER INFORMATION

Nothing contained in this Material Safety Data Sheet shall be construed as a license or otherwise to use any product that would infringe any patent or to use any trademark or trade name.

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