

MATERIAL SAFETY DATA SHEET (MSDS)



SECTION 1: Identification of the substance and of the company/ undertaking

1.1 Product identifier:

Trade name: **PLAZGAL PS (GPPS / HIPS)**

Product name: Extruded Polystyrene (PS) Solid Sheets

Material Name: GPPS - Polystyrene Homopolymer / HIPS – Polystyrene Polybutadiene rubber

CAS number: 9003-53-6

1.2 Relevant identified uses of the product:

Indoor applications, packaging, thermal insulation.

1.3 Details of the supplier:

Supplier: Plazit-Polygal Group

Israel-Corporate	Russia & CIS - Plazit-Polygal Vostok	Europe – Plazit-Polygal Bulgaria
Address: Kibutz Gazit 1934000 Israel Tel.: +972 4-662-8885	Address: Sovetskaya St., 105, Kurovskoe, Moscow reg., 14620 Tel.: +7(496) 4119000	Address: Agrobiokhim Site Stara Zagora, 6000 Bulgaria Tel.: +359-42615211

Email: plazit@plazit-polygal.com

Website: www.plazit-polygal.com

SECTION 2: Composition/Information on Ingredients

2.1 Chemical Name: Polystyrene

Other additives < 1%

2.2 Remarks:

Pigments and additives used to obtain specific properties are encapsulated in the polymer resin matter.

SECTION 3: Hazards identification

3.1 Product Overview:

Color: clear (GPPS), white (HIPS)

Physical state: solid

Form: sheets

Odor: odourless

Not labelled as hazardous.

Under normal conditions of use, this product is not expected to create any unexpected industrial hazards. Contact with hot material will cause thermal burns

3.2 Potential Health Effects:

There are no known human health effects aggravated by exposure to this product.

Primary routes of exposure: Inhalation and skin contact.

General: The product, in the form supplied, is not expected to produce significant adverse human health effects. Product dust may be irritating to eyes, skin and respiratory system.

3.3 Remarks:

Handle in accordance with good industrial hygiene and safety practice. Secondary operations, such as grinding, sanding or sawing of the sheets, can produce dust which may present a respiratory hazard.

SECTION 4: First-aid measures

In normal handling the material should not cause accidents.

4.1 Description of first aid measures:

Inhalation: Not likely due to physical form. If inhaled remove to fresh air.

Skin: In case of contact, immediately flush skin with plenty of water. If molten polymer gets on the skin, cool rapidly with cold water. Do not peel solidified product off the skin. Obtain medical treatment for thermal burns. Remove material from clothing. Wash clothing before reuse.

Eyes: Remove contact lenses at once. Immediately flush eyes well with copious quantities of water or normal saline for at least 20-30 minutes. If irritation persists, seek medical attention.

Ingestion: Not probable. If large amount is swallowed, seek medical attention.

Burns: Burns by molten material must receive medical attention. Do not try to remove melted PS from skin.

4.2 Most important symptoms

Dust: Skin irritation, eye irritations and redness.

4.3 Indication of any immediate medical attention and special treatment needed: No

SECTION 5: Fire-fighting measures

Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedure.

5.1 Suitable Extinguishing Media:

Dry water fog, foam, dry chemical, carbon dioxide (CO₂).

5.2 Extinguishing Media to Avoid

No information currently available.

5.3 Special Fire Fighting Procedures

Minimize dust generation and accumulation.

5.4 Special Protective Equipment & Precautions for Fire Fighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.5 Specific Fire Hazards

Dense black smoke emitted when burned without sufficient oxygen

SECTION 6: Accidental Release Measures

Spill or release: Clean up by vacuuming or sweeping to prevent falls. If molten, allow material to cool and place into an appropriate container for disposal.

SECTION 7: Handling and Storage

7.1 Handling

Practice reasonable care and caution in handling this product. Local exhaust ventilation may be necessary for some operations (e.g. to control irritation from dust).

Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate. Protect against flame and intense heat.

7.2 Storage

This material is not hazardous under normal storage conditions, is physically stable and has no special storage requirements. Store in a dry place away from moisture, excessive heat and sources of combustion.

7.3 Waste Disposal

Dispose in accordance with applicable federal, state and local regulations.

7.4 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 / Personal Protection

No specific exposure related hazards are known.

8.1 Exposure limits:

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Industrial Hygiene/Ventilation Measures

General and local exhaust ventilation as recommended by good manufacturing practice should be sufficient for normal operations.

8.3 Respiratory protection

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

In dusty atmosphere use an approved dust respirator.

8.4 Hand protection

Wear heat resistant gloves when handling molten material. Canvas or cotton gloves are recommended.

8.5 Eye protection

Safety glasses with side-shields are recommended.

8.6 Skin and body protection

No special skin protection requirements during normal handling and use.

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

Color: clear (GPPS), white (HIPS)

Physical state: solid

Form: sheets

Odor: odourless

Specific gravity (20°C): 1.05 kg/m³

Vapor pressure, mmHg/20°C: Not applicable

Vapor density: Not applicable

Boiling point/boiling range (°C): Not applicable

Flash Point: None

Melting Point (°C): > 80

Auto-ignition Temperature (°C): None

Decomposition Temperature: >300°C

Solubility in water: None

SECTION 10: Stability and Reactivity

10.1 Stability:

The product is stable under normal handling and storage conditions.

10.2 Materials to avoid:

None under normal conditions of use.

10.3 Conditions / hazards to avoid:

Protect from excessive heat. Keep away from sources of ignition and heat. Avoid or minimize dust formation.

10.4 Hazardous / thermal decomposition products:

Thermal decomposition products include traces of hydrocarbons (e.g. styrene, ethyl benzene, etc.)
Combustion by-products include smoke, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological Information

This product should not be harmful under normal conditions of use.

11.1 Inhalation: Unlikely to be harmful by inhalation under ambient temperature. At high temperature, products of thermal decomposition can be irritating to the respiratory system.

11.2 Skin Contact: Not a skin sensitizer, and is non-irritating to skin under ambient temperature. At high temperature, contact with the product can cause serious burns.

11.3 Ingestion: May cause obstruction if swallowed. Single dose oral toxicity is believed to be very low. Considered physiologically inert.

11.4 Eye Contact: This product in the form of dust can be irritating to the eyes. At high temperature, products of thermal decomposition can be irritating to the eyes.

11.5 Carcinogenicity: Non-carcinogenic

11.6 Chronic Effects on Humans:

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

11.7 Other Toxic Effects on Humans:

In plastic sheet form, not considered dangerous to humans.

SECTION 12: Ecological Information

This product is a solid, inert product with low solubility. In a soil environment, the product is inherently very difficult to degrade.

12.1 Ecotoxicity:

No known or expected ecotoxicity.

12.2 Mobility:

Due to the solid nature of this product, it should have low mobility in soil.

12.3 Persistence & Degradability:

This product is non-biodegradable.

12.4 Bioaccumulation:

This solid product has a low potential for bioaccumulation.

12.5 Effect in Sewage Plants:

May be separated mechanically.

General: Not expected to present any significant ecological problems.

SECTION 13: Disposal Considerations:

13.1 Recycle and discharge:

The product is suitable for mechanical recycling. After appropriate treatment it can be remelted and processed into new molded articles.

13.2 Waste disposal:

Sweep or gather up material and place in proper container for disposal or recovery.

General: Waste disposal should be in accordance with all federal, state and local environmental laws and regulations.

SECTION 14: Transport Information

Product is not classified for any mode of transportation.

14.1 Department of Transportation (DOT) Hazard Class:

Not regulated.

14.2 Other information: Not Dangerous Cargo.

SECTION 15: Regulatory Information

OSHA Hazard Communication: Non-hazardous

SARA Section 311/312: Not applicable

Canadian WHMIS: Not applicable

SECTION 16: Other Information

PLAZGAL PS is a registered trademark of Plazit-Polygal Group.

Additional information on this product may be obtained by calling your Plazit-Polygal Sales or Customer Service contact.

MSDS Prepared By: R&D Plazit-Polygal Group

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MSDS Revision Date:

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