

# MATERIAL SAFETY DATA SHEET (MSDS)



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

### 1.1 Product identifier:

Trade name: **PLAZGAL SAN sheets / SAN-UV (DCX) sheets**

Product name: Extruded Styrene Acrylonitrile Copolymer (SAN) Solid Sheets

CAS number: 9003-54-7

### 1.2 Relevant identified uses of the product:

Outdoor and indoor applications, such as glazing, interior designs and DIY.

### 1.3 Details of the supplier:

Supplier: Plazit-Polygal Group

Address: Kibutz Gazit 1934000 Israel

Tel.: +972 4-662-8885

Email: [plazit@plazit-polygal.com](mailto:plazit@plazit-polygal.com)

Website: [www.plazit-polygal.com](http://www.plazit-polygal.com)

## SECTION 2: Composition/Information on Ingredients

**2.1 Chemical Name:** Styrene Acrylonitrile Copolymer

### 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

**Physical state:** solid

**Form:** sheets

**Odor:** Faint specific odour

**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. No known specific antidote.

**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 15 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 SAN 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**

##### **5.1 Suitable Extinguishing Media:**

Water, dry extinguishing media, foam.

##### **5.2 Extinguishing Media to Avoid**

No information currently available.

##### **5.3 Special Fire Fighting Procedures**

Minimize dust generation and accumulation. Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

##### **5.4 Special Protective Equipment & Precautions for Fire Fighters**

Self-contained breathing apparatus and chemical protective clothing.

##### **5.5 Specific Fire Hazards**

Irritating gases and dense smoke.

#### **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.

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## SECTION 7: Handling and Storage

### 7.1 Handling:

Practice reasonable care and caution in handling this product.

Mechanical re-working 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.

Gaseous by-products of degradation can be given off if the product is greatly overheated: monomers, other degradation products, traces of hydrogen cyanide. Avoid inhalation of vapour. Processing machines must be fitted with local exhaust ventilation.

### 7.2 Storage:

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

### 7.3 Waste Disposal

Dispose in accordance with applicable national and local regulations.

### 7.4 Secondary Use / Reprocessing

When reprocessing material for secondary use, ground all electrical 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:

The following can be given off when the product is processed (traces):

|   |                  |
|---|------------------|
| Styrene:  | CAS-No. 100-42-5 |
| Observe the appropriate MAK value (Germany); TRGS 900 (Germany)   |                  |
| Acrylonitrile:  | CAS-No. 107-13-1 |
| The relevant TRK value (Germany) should be noted; TRGS 100, 102 (Germany) EC category C2<br>Given suitable ventilation it can be assumed that the threshold limits will not be reached. |                  |

### 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. If breathable dust is formed Filter P1 (for solid particles) DIN 3181.

### 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.

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## 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

**Physical state:** solid

**Form:** sheets

**Odor:** Faint specific odour

**Specific gravity (20°C):** 1.08 kg/m<sup>3</sup>

**Vapor pressure, mmHg/20°C:** Not applicable in normal conditions

**Vapor density:** Not applicable in normal conditions

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

**Softening Point (°C):** > 95

**Ignition Temperature (°C):** >400

**Decomposition Temperature (°C):** >300 (Starts to decompose at 320°C approx.)

**Solubility in water:** insoluble

**Solubility in other solvents:** Soluble in THF, Acetone and other Analogous Solvents.

## 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. To avoid thermal decomposition, do not overheat. Avoid or minimize dust formation.

### 10.4 Hazardous / thermal decomposition products:

Avoid fire and heating above 60°C. Thermal decomposition products include smoke, carbon dioxide (CO<sub>2</sub>) and steam. In addition small quantities of the following substances can be formed: carbon monoxide, monomers, other degradation products, hydrogen cyanide (trace quantities).

## SECTION 11: Toxicological Information

In our experience and according to information available to us the product is not harmful to health provided it is correctly handled and processed according to the given recommendations.

Biocompatibility testing for this polymer or its extracts has generally shown that the material is inert.

**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:** non-irritating to skin in ambient temperatures. At high temperatures 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.

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**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

**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 the product is not considered dangerous to humans.

## **SECTION 12: Ecological Information**

This product is a solid, inert product with low solubility.

**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 water insoluble polymeric solid is expected to be inert in the environment. Surface degradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

**12.4 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 national and local environmental laws and regulations.

## **SECTION 14: Transport Information**

Not classified as hazardous under transport regulations/

**14.1 Department of Transportation (DOT) Hazard Class:**

Not regulated.

**14.2 Other information:** Not Dangerous Cargo.

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## **SECTION 15: Regulatory Information**

**Labeling according EEC directives:** not subject to labelling.

**OSHA Hazard Communication:** Non-hazardous

**SARA:** Not listed

**German Hazardous Substance regulations:** Not classified

## **SECTION 16: Other Information**

PLAZGAL SAN 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 Department Plazit-Polygal Group

**MSDS Original Date of Preparation:** 8 June, 2020

**MSDS Revision Date:**

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**Plazit Polygal Group**

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