

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1 Product identifier:

Trade name: **PLAZCAST, OPTIX Cell Cast**

Product name: Polymethyl methacrylate (PMMA)

CAS number: 009011-14-7

1.2 Relevant identified uses of the product:

INSIDE AND OUTSIDE CONSTRUCTIVE ELEMENTS: noise reduction barriers, covering of walls and ceilings, screens and compartment, doors (tracks, folds, etc.), bars of bar, railings of stairs and balconies, dividing of balconies and terraces, skylights in industrial ships, cupolas, outer ornamental elements, facades, constructions, grounds, show windows, antivandalic windows and protections, sculptures, transparent swimming pools, telephone boxes, bus stop, luminous ceilings.

1.3 Details of the supplier:

Supplier: PLASKOLITE

PLAZIT IBERICA PLASTIC SOLUTIONS, S.A.U.

Address: C/. Arboç, 13-15

17457 Riudellots de la Selva - Girona (España)

Tel.: +0034 972.478121

Email: iberica@PLASKOLITE.com

Website: www.plaskolite.com

SECTION 2: Composition/Information on Ingredients

The components of the product that may present a risk to health or the environment, and those with an assigned environmental limit value are detailed below.

According to regulation (CE) No. 1272/2008 (CLP).

COMPONENT	% WEIGHT	CAS N°
Polymethyl methacrylate	More than 90%	009011-14-7

SECTION 3: Hazards identification

3.1 Product Overview:

Color: Clear or colored

Physical state: solid

Form: sheets

Not labelled as hazardous.

3.2 Potential Health Effects:

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

This product does not meet the criteria required to classify it in any hazard class according to Regulation (EC) No. 1272/2008 for the classification, labelling and packaging of substances and mixtures.

3.3 Other hazards:

Low toxicity under normal conditions of handling and use. It can cut. Thermal decomposition gives off toxic, irritating and flammable fumes. Attention must be paid during thermoforming to ensure that the product is not exposed to temperatures above 200 degrees Celsius. Certain machining operations, e.g. laser cutting, can generate dust, toxic and corrosive fumes. There must be adequate ventilation.

SECTION 4: First-aid measures

4.1 Description of first aid measures:

Inhalation: The material is not considered to be harmful by inhalation.

Skin: IN CASE OF CUT: Wash immediately with plentiful water and soap.

Eyes: IN CASE OF LESIONS: By cutting or acrylic dust particle, wash immediately with plentiful water or cleaning solution with eyes wide open for at least 5 minutes. Then consult an optician.

Ingestion: The material is not considered dangerous if ingested. Special First Aid measures are not necessary.

4.2 Most important symptoms

Dust: Skin and eye irritation.

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

SECTION 5: Fire-fighting measures

5.1 Extinguishing media: Powdered water, foam, dry chemical, CO₂.

5.2 Special fire risk:

It can burn. Fumes heavier than air. Explosive mixtures with air at normal temperatures are possible.

5.3 Special Fire Fighting Procedures:

Pour water on vapours at source. Avoid extinguisher water penetration where held underground or in shallow containers.

5.4 Special Protective Equipment for Firefighters:

Stay in the risk area only with suitable protective clothing and with artificial respiration systems independent of the environment.

Avoid sources of ignition. Withdraw immediately in case of alarm. Consult and apply security and emergency plans if they exist.

5.5 Other recommendations:

Avoid electrostatic charges.

SECTION 6: Accidental Release Measures

No special precautions and no personal protective equipment needed. Offcuts, swarf or dust should be collected and disposed of in a safe way.

SECTION 7: Handling and Storage

7.1 Handling:

Avoid electrostatic charges. Keep away from sources of ignition.

7.2 Storage:

This material is not hazardous under normal storage conditions.

Store in a dry place away from moisture, excessive heat and sources of combustion.

SECTION 8: Exposure Controls / Personal Protection

8.1 Exposure limits:

No specific exposure related hazards are known.

8.2 Industrial Hygiene

Handle in accordance with good industrial hygiene and safety practice.

8.3 Respiratory protection

Cutting, milling and sanding can create small particles of monomeric methyl methacrylate and disturbing particles or breathable dust. Ventilate properly and use suitable respiratory protection.

8.4 Hand protection

Gloves should be worn to avoid the possibility of cuts.

8.5 Eye protection

Use safety glasses and visors to avoid particle infiltration.

8.6 Skin and body protection

Wear anti-rip clothing. The wearing of industrial safety boots is recommended.

SECTION 9: Physical and Chemical Properties

Aspects and smell: Various

pH: Not available

Boiling point: Not applicable

Fusion point: Not applicable

Flash point: Not applicable

Ignition point: Aprox. 420°C DIN 51794

Auto ignition: Not applicable

Explosive limits:

lower: Not applicable

upper: Not applicable

Vapor pressure: Not applicable

Density: 1.19 kg/m³

Solubility in water: (20°) Insignificant

Solubility in ethanol: Insignificant

Distribution Coefficient n-octanol/water: Not applicable

SECTION 10: Stability and Reactivity

10.1 Reactivity:

Non-reactive material.

10.2 Stability:

Unstable: Sensitive to contamination and temperature.

Stable: Very slow decomposition time under normal handling and storage conditions.

10.3 Materials to avoid:

Nitric acid, nitrogenous oxidants, strong oxidants.

10.4 Conditions / hazards to avoid:

Avoid potential ignition sources. During improper processing combustible irritating vapours, which affect the eyes and respiratory system.

10.5 Incompatible materials:

Soluble in most organic solvents, acetone and chlorinated hydrocarbons.

10.6 Hazardous decomposition products:

Flammable and toxic vapours. (In case of fire see Section 5).Carbon monoxide, carbon dioxide, methyl methacrylate, methane, ethane, acetylene, methyl isobutirate, methyl propionate and/or water.

SECTION 11: Toxicological Information

11.1 Effects of over exposure:

Not known.

11.2 Inhalation:

Not known.

11.3 Ingestion:

Not known.

11.4 Skin contact:

Not known.

11.5 Eye contact:

Not known.

11.6 Carcinogenity:

Not known.

11.7 Toxicity for reproduction:

Not known.

11.8 Exposure limits:

Not found.

SECTION 12: Ecological Information

12.1 General considerations:

Unclassified product.

12.2 Persistence and Degradability:

No data available but can be considered difficultly biodegradable.

12.3 Accumulation:

Not to be expected that it bio accumulates in organisms.

12.4 Ecotoxicity (Mobility in soil) :

As a solid product, it is difficult that it contaminates, it can be easily recovered in case of accidental spillage.

12.5 Results of PBT and vPvB assessment:

Not classified as PBT or vPvB.

12.6 Other ecological data:

Do not allow to soak into the ground, to enter water courses or sewers.

SECTION 13: Disposal Considerations:

The residue is not considered dangerous. Large amounts of waste can be recoverable. Seek specialized advice from your provider.

13.1 Waste treatment methods:

Product

In accordance with the relevant laws and legislation.

Disposal must be done in accordance with local, state or national law. It can be deposited in a landfill in accordance with local regulations. Incineration can be used to recover energy. The regional waste disposal company should carry out the assignment of a waste code, according to the European Waste Catalogue.

Packaging

Disposal of packaging should be carried out in accordance with official regulations. For contaminated packaging, the same measures should be taken as for the contaminating product. Uncontaminated packaging should be treated as household waste or as recyclable material.

Waste disposal

The establishments and companies dedicated to the recovery, elimination, collection or transport of waste should comply with the provisions related to waste management or other autonomous, national or community provisions in force.

SECTION 14: Transport Information

14.1 UN number:

Not classified as dangerous for Transport.

14.2 UN proper shipping name:

Not regulated.

14.3 Transport hazard class(es):

Not regulated.

14.4 Packing group:

Not regulated.

14.5 Environmental hazards:

Not regulated.

14.6 Special precautions for user:

Not regulated.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:

Not regulated.

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Safety data sheet: according to Annex II of Regulation (EC) 1907/2006 and its modification (s).

MARKINGS ACCORDING THE UE GUIDELINES: None demanded.

15.2 Chemical safety assessment:

For this substance / mixture a Chemical Safety Assessment (VSQ) has not been carried out. None is required.

SECTION 16: Other Information

This Safety Data Sheet was prepared in accordance with EC Regulation No. 453/2010.

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

MSDS Prepared By: R&D Department Plaskolite

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