

Update: October 2025

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This document covers safety data concerning the following products:

PALGLAS®

While regulatory requirements do not mandate a Safety Data Sheet for our plastic sheet products, we have prepared this Product Safety Data Sheet (PSDS) to provide our customers with clear and transparent information on product safety. This PSDS reflects our commitment to ensuring that relevant safety data is readily accessible to support safe handling and use.

1. Identification of the article and the company

1.1. Identification of the article

Trade Names	: PALGLAS®
Product Name	: Extruded Polymethyl Methacrylate (PMMA) Solid Sheets
Material Name	: Acrylic Copolymer
CAS number	: 9010-88-2
UN number	: None
ACX number	: X1008843-8
RTECS	: TR0400000
Material Synonyms	: Acryloid; Methyl methacrylate, polymerized; PMMA; Methyl methacrylate homopolymer; Methyl methacrylate resin; Poly (methyl methacrylate).
NFPA Ratings	: Health=0, Fire=3, Reactivity=0

1.2. Relevant identified uses of the product

Glazing, noise reduction barriers, exterior and interior decoration, artistic and aesthetic applications, and others.

1.3. Company Identification & Contact

Israel - Palram Paltough	UK - Palram Polycarb	Americas - Palram 2000
Address: Ramat Yohanan, 30035, ISRAEL Tel: +972 4 8459 900 Fax: +972 4 8444 012	Address: Unit 2, Doncaster Carr Industrial Estate, White Rose Way, Doncaster DN4 5JH, UK Tel: +44 1302 380738 Fax: +44 1302 380739	Address: 9735 Commerce Circle Kutztown, PA 19530, USA Tel: +610-285-9928 Fax: +484-647-8210

Local: Call your nearest poison control center.

2. Hazards identification

Not labelled as hazardous.

2.1. Product Overview

Color	: clear
Physical state	: solid
Form	: sheets
Odor	: odourless

CAUTION! PROCESSING MAY RELEASE VAPORS AND/OR FUMES WHICH CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

2.2. Potential Health Effects

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

Primary routes of exposure : Inhalation and skin contact.

Signs and symptoms of acute exposure : High molecular weight polymer. The product, in the form supplied, is not anticipated to produce significant adverse human health effects. Product dust may be irritating to eyes, skin and respiratory system.

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Effects due to processing releases : Irritating to eyes, respiratory system and skin. Inhalation of fumes may cause flu-like symptoms. (severity of effects depends on extent of exposure) Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness.

2.3. 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. This product may release fumes and/or vapor of variable composition depending on processing time and temperature

3. Composition / Information of Ingredients

3.1. Chemical Name: Polymethyl methacrylate copolymers

INGREDIENT NAME	CAS #	TYPICAL WT%	OSHA LISTED
Poly (Ethyl Acrylate/ Methyl Methacrylate)	9010-88-2	99.3 minimum	N
Methyl Methacrylate	80-62-6	<0.7	Y

3.2 Remarks:

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

No cadmium or other heavy metals based pigments or stabilizers used.

The substance marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Communication Standard (29 CFR 1910.1200).

4. First Aid Measures

In general handling the material will 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 persist, 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 PMMA from skin.

4.2. Main symptoms

Dust : Skin irritation, eye irritations and redness.

4.3. Indication of any immediate medical attention and special treatment needed

no

5. Fire Fighting Measures

This material burns with difficulty and generally requires a continuous external flame source to sustain combustion.

Without flashover fire conditions it will tend to extinguish itself. When forced to burn it will produce a sooty fire.

Main products of combustion are carbon dioxide and carbon monoxide. Some flame-retardant grades will evolve trace quantities of hydrogen bromide on combustion.

Combustion products have been found in independent tests to be essentially non-corrosive.

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5.1. Extinguishing Media

Dry chemical, water spray, carbon dioxide, foam CO2. Water spray is recommended due to its cooling capacity.

Firemen must wear self-contained breathing apparatus.

5.2. Extinguishing Media to Avoid

No information currently available.

5.3. Special Fire Fighting Procedures

Personnel without suitable respiratory apparatus should leave the affected area to prevent exposure to toxic or combustible gases.

5.4. Special Protective Equipment For Firefighters

Positive-pressure self-contained breathing apparatus, protective clothing, gas mask approved for acid vapors.

5.5. Unusual Fire and Explosion Hazards

Heated material can form flammable vapors with air.

6. Accidental Release Measures

No special precautions and no personal protective equipment needed. Collect mechanically for disposal.

7. Handling and Storage

7.1. Handling

No explosion hazard.

Avoid breathing processing fumes or vapors. Secondary operations such as grinding, sanding or sawing may produce a dust explosion hazard. Avoid breathing dust. Provide adequate ventilation. Avoid mechanical contact with eyes. Handle in accordance with good industrial hygiene and safety practices.

In the event of fire, cool and overlap product with water. The material is not sensitive to static discharge. Static electricity discharge sparks possible during handling. Avoid contact or vicinity of flammable materials.

7.2. Storage

This material is not hazardous under normal storage conditions. However, all material of this type release some monomer vapors or gases when stored for prolonged periods at elevated temperatures.

Avoid temperature extremes during storage.

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

8. Exposure Controls / Personal Protection

No specific exposure related hazards are known.

8.1. Exposure Limits

Airborne Exposure Guidelines for Ingredients – Methyl Methacrylate.

EXPOSURE LIMIT	VALUE
ACGIH Sensitizer designator	Y
ACGIH STEL	100 ppm (410 mg/m3)
ACGIH TWA	50 ppm (205 mg/m3) – averaged over 8 hour work shift
OSHA TWA PEL	100 ppm (410 mg/m3) – averaged over 8 hour work shift
NIOSH TWA	100 ppm (410 mg/m3) – averaged over 10 hour work shift

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Remarks:

- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately
- quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

8.2. Industrial Hygiene/Ventilation Measures

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines, especially during cutting, grinding and high heat operations.

8.3. Respiratory protection

No exposure limit has been established for this product.

8.4. Hand protection

Wear heat resistant gloves when handling molten material.

8.5. Eye protection

Safety glasses with side-shields

8.6. Skin and body protection

No special skin protection requirements during normal handling and use.

9. Physical and Chemical Properties

Color	:	clear
Physical State	:	Solid
Form	:	sheets
Odor	:	odourless
pH	:	not applicable
Density	:	(20°C) 1.19 kg/m ³
Vapor Pressure	:	not applicable
Viscosity	:	not applicable
Boiling Point/Boiling Range	:	not applicable
Freezing Point	:	not applicable
Softening Temperature	:	about 102°C
Flash Point	:	3390°C (ASTM D 1929-68)
Ignition Temperature	:	465 °C (ASTM D 1929-68)
Decomposition Temperature	:	about 280°C
Solubility in Water	:	insoluble
Solubility (non aqueous)	:	Benzene, Acetone, Methyl Ethyl Ketone (MEK), and Dimethyl formamide (DMF)

10. Stability and Reactivity

10.1. Stability

The product is stable under normal handling and storage conditions.

10.2. Hazardous reactions

Hazardous polymerization does not occur.

10.3. Materials to avoid

None under normal conditions of use.

Avoid contact with acids, alkalies and strong oxidizing agents.

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10.4. Conditions / hazards to avoid

Avoid flames, welding arcs, potential ignition sources, or other high temperature sources (>250°C) which induce thermal decomposition. During thermal decomposition caused by fire or overheating during improper processing combustible irritating vapours are formed consisting mainly of methyl methacrylate, which affect the eyes and respiratory system.

10.5. Hazardous / thermal decomposition products

Carbon monoxide (CO) - is highly toxic if inhaled, present in combustion fumes of all organic materials;

Carbon dioxide (CO₂) - in sufficient concentrations can act as an asphyxiant, present in combustion fumes of all organic materials

Acrylic monomers - can cause irritation of skin, eyes, nose, throat, and lungs

11. Toxicological Information

Data for Polymethyl methacrylate copolymers

11.1. Acute toxicity

Practically nontoxic. Oral LD₅₀ (rat) = 8,000 mg/kg (similar material).

11.2. Genotoxicity

No genetic changes were observed in laboratory tests.

11.3. Other information

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

11.4. Skin contact

Irritant but not a sensitizer (mechanical irritation).

12. Ecological Information

Water : Not generally hazardous to water.

General : Not expected to present any significant ecological problems.

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. Mechanical recycling is possible if the material has been selectively retrieved and carefully segregated according to type.

May be discharged or incinerated together with household refuse if local official regulations are observed.

13.2. Waste disposal

It is the user's responsibility to dispose of all wastes including packaging materials in accordance with all national and local regulations at properly permitted or authorized facilities.

14. Transport Information

14.1. Department of Transportation (DOT) Hazard Class

not regulated

14.2. Other information

Not Dangerous Cargo.

GGV See/IMDG : Code not applicable

UN No : Code not applicable

ICAD/IATA-DGr : Code not applicable

GGVE/GGVS : Code not applicable

RID/ADR : Code not applicable

ADNR : Code not applicable

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15. Regulatory Information

PALGLAS Extruded Polymethyl Methacrylate (PMMA) Solid Sheets do not require labeling as specified in EEC Directive 79/831/EEC and amendments.

OSHA Hazard Communication	: Non-hazardous
Toxic Substances Control Act	: Listed
CERCLA Hazardous Substances (40 CFR 302)	: None
SARA Section 311/312	: Non-hazardous
Canadian WHMIS	: None

STATE REGULATORY INFORMATION

We have not analyzed the products covered by this MSDS, nor the raw materials used in their manufacture, for the presence of items on various state hazardous substances lists. However, to the best of our knowledge, no such substances are present at reportable concentrations, except as specifically listed below:

Methyl methacrylate (CAS 80-62-6) < 1.0%

16. Other Information

PALGLAS

MSDS Prepared by Palram Regulatory Team

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Disclaimer

Palram believes that the information and recommendations contained (including data and statements) in this PSDS are accurate as of the date hereof.

This PSDS is based on information that is believed to be reliable, but may be subject to change as new information becomes available. Since it is not possible to anticipate all conditions of use, additional safety precautions may be required.

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