

Update: October 2025

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This document covers safety data concerning the following products:

PALBOARD®

PALCLAD®

PALCLEAR®

PALFOAM™

PALIGHT®

PALRUF®

PALTOP™

PALOPAQUE®

DURACLAD®

DURASHIELD®

AG-TUF®

SUN 'N RAIN™

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 : PALBOARD®, PALCLAD™, PALCLEAR®, PALFOAM™, PALIGHT®, PALRUF®, PALTOP™, PALOPAQUE®, DURACLAD®, DURASHIELD®, AG-TUF®, SUN 'N RAIN™

Product Name : Rigid and Foamed Polyvinyl Chloride sheets

Material Synonyms : PVC

NFPA Ratings : Health=1, Fire=0, Reactivity=0

1.2. Company Identification & Contact

Israel - Palram PVC	UK - Palram DPL	Americas - Palram 2000
Address: Ramat Yohanan, 30035, ISRAEL	Address: 22 Coatham Ave. Aycliffe Industrial Park	Address: 9735 Commerce Circle Kutztown, PA 19530, USA
Tel: +972 4 8459 900	Newton Aycliffe Co.	Tel: +610-285-9928
Fax: +972 4 8444 012	Durham, DL5 6DB, UK	Fax: +484-647-8210
	Tel: +44 1325 300437	
	Fax: +44 1325 318173	

Local: Call your nearest poison control center.

2. Hazards identification

No particular hazards known.

2.1. Health Hazard Data

2.1.1 Effects of a Single Overexposure

Swallowing : non-relevant

Skin absorption : non-relevant

Inhalation : non-relevant

Skin contact : exposure is not expected to cause adverse health effects

Eye contact : non-relevant

2.1.2 Effects of a Repeated Overexposure - None currently known

2.1.3 Medical Conditions Aggravated by Overexposure - None currently known

2.1.4 Other Effects of Overexposure - None currently known

3. Composition / Information of Ingredients

PVC sheets formulated with additives and pigments to enhance specific properties. No solvents. No plasticizers. No cadmium, lead, or other heavy metals used.

4. First Aid Measures

In general handling the material will not cause accidents.

4.1. Inhalation

Route of entry – inhalation: No

If exposed to combustion fumes in high concentration - bring victim to fresh air.

Medical attention needed.

4.2. Ingestion

Route of entry – ingestion: No

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4.3. Skin Contact

Burns resulting from accidental contact with molten material must be flushed immediately with cold water.

Do not remove the polymer from the skin. Medical attention needed.

4.4. Skin Absorption

Route of entry – skin: No

4.5. Eye Contact

Like any foreign body, can cause mechanical irritation. Consult physician.

4.6. Notes for Physician

There are no specific notes.

5. Fire Fighting Measures

5.1. Extinguishing Media

Water spray or CO₂. CO₂ is less recommended due to lack of cooling capacity.

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 closing, gas mask approved for acid vapours.

5.5. Unusual Fire and Explosion Hazards

PVC is a self extinguishing fire retardant material, that being exposed to open fire and high temperatures decomposes emitting large quantities of HCl, which tends to extinguish the flames. It does not continue to burn after ignition without an external fire source. HCl has a strong acidic odor that causes sensory alert at very low concentrations. HCl odor threshold = 0.77 ppm. Exposure to high concentrations of HCl will cause irritation of the respiratory passages, at very high concentrations may cause burns to mucous membranes. OSHA legal airborne PEL is 5 ppm, not to be exceeded at any time. ACGIH recommended airborne exposure limit is 5 ppm, which should not be exceeded at any time. Soot emitted when PVC is forced to burn may obscure visibility.

6. Accidental Release Measures

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

7. Handling and Storage

7.1. Handling

General handling precautions

Avoid mechanical contact with eyes.

Ventilation

General (mechanical) room ventilation is expected to be satisfactory where this product is stored and handled.

Other precautions

No explosion hazard. In the event of fire, cool and overlap product with water.

Static electricity discharge sparks possible during handling. Avoid contact or vicinity of flammable materials.

7.2. Storage

Store in a cool shady area. No special technical protective measures required.

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8. Exposure Controls / Personal Protection

8.1. Exposure Limits

No occupational exposure limits established by OSHA, ACGIH, or NIOSH.

8.2. Personal Protection

Respiratory protection	:	No special protection needed
Hand protection / protection gloves	:	No special protection needed
Eye protection	:	No special protection needed
Other protective equipment	:	No special protection needed

9. Physical and Chemical Properties

Appearance	:	Flat, corrugated and foamed plastic sheets
Physical State	:	Solid
Color	:	White, transparent or colored
Odor	:	None
Density	:	0.4-1.5 gr/cm ³
Boiling Point, 760 Hg	:	Not relevant
Viscosity	:	Not relevant
Solubility in Water	:	<0.1g/100mL at 23°C
pH Value	:	Not relevant
Flash Point	:	391°C ASTM D 1929
Autoignition Temp.	:	454°C ASTM D 1921
Flammability Limit	:	None
Explosion Limits	:	None
Evaporation Rate	:	Not relevant
Percent Volatiles	:	Not relevant

10. Stability and Reactivity

10.1. Stability

Stable.

Conditions to avoid

Excessive heat, or open flame. Temperature above 150°C will decompose raw polymer resin and liberate HCl.

Incompatible materials

Oxidizing agents or strong mineral acids can cause reaction.

Thermal decomposition

Begins above 150°C caused by fire, overheating during improper processing. Fumes damaging to health may be released.

Hazardous decomposition products

Burning can produce the following combustion 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;

Hydrogen chloride (HCl) - in high concentrations cause irritation of the respiratory passages, at very high concentrations may cause burns to mucous membranes.

10.2. Reactivity

Hazardous polymerization : Will not occur

Hazardous reactions : None.

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11. Toxicological Information

PVC materials have a very low acute toxicity. In rats an acute LD₅₀ > 10 gr/kg of body weight. PNEUMOCONIOSIS has been described from inhalation of combustion products (effects of overexposure).

Industrial hygiene studies have shown that under normal and expected conditions of use of PVC materials, exposures are well below applicable limits.

11.1. Acute Toxicological Information

Acute oral toxicity	:	None
Acute percutaneous toxicity	:	None
Acute vapor exposure	:	None
Primary skin irritation	:	no irritation
Eye irritation	:	no irritation
Sensitization	:	no information available
Chronic effects	:	unknown
Carcinogenicity - NTP	:	not listed
Carcinogenicity - IARC	:	not listed
Carcinogenicity - OSHA	:	not listed

11.2. Other Toxicological Information

No known toxicological effects with normal use. For heating see section 10.

11.3. Additional Information

No additional toxicity information currently available.

12. Ecological Information

12.1. Persistence and Degradability

Detailed studies have not been conducted concerning the environmental fate of the product. According to present knowledge no unfavorable ecological effects are to be expected. Not generally hazardous to water. Insoluble in water, non-toxic solid.

Mobility	:	No information currently available
Persistence and biodegradability	:	Biodegradation period - tens of years.
Bioaccumulative potential	:	No information currently available.

12.2. Environmental Risks

No hazard expectation to terrestrial or aquatic flora and fauna.

Ecotoxicity	:	LD ₅₀ (rats) > 10 gr/kg
	:	IC ₅₀ (bacterial inhibition) - no data available
Aquatic toxicity	:	LC ₅₀ (daphnia magna) - no data available
	:	LC ₅₀ (fathead minnow - fish) - no data available

12.3. Other Information

All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this safety data.

13. Disposal Considerations

The product is not considered hazardous under current EPA hazardous waste regulations. Recycling is the preferred method of disposal.

Alternatively, the product may be disposed of in an approved landfill.

High temperature incineration under controlled conditions due to formation of HCl.

All wastes should be evaluated in conjunction with applicable solid and hazardous waste regulations, Toxicity Characteristic Leaching Procedures (TCLP), and disposed of as appropriate. This product does not contain any cadmium or other heavy metal pigments or stabilizers. It is the user's responsibility to dispose of all wastes including packaging material in accordance.

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14. Transport Information

Packaging : Avoid dark-colored packaging to prevent heat distortion

The product is classified as a non-hazardous material in the meaning of transport regulations.

15. Regulatory Information

Palram PVC sheets comply with the following regulations:

- EU Regulation 1907/2006 (REACH)

- Directive 2015/863 (RoHS)

- EU/US 'Conflict Minerals' Regulation

Additional information on other local regulations may be obtained by calling your PALRAM Sales or Customer Service Contact.

With regards to dust formed as a consequence of mechanical treatments, the appropriate regulations value limits for fine dust must be observed: MAC value (fine dust) – 5mg/m3.

OSHA Hazard Communication Classification for dusts and combustion fumes: Irritant, Skin Hazard, and Lung Hazard.

SARA Title III Classification for dusts and combustion fumes: Acute Health Hazard; Chronic Health Hazard.

WHMIS Classification : Non-hazardous.

Toxic Substances Control Act : TSCA compliant

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements.

For details on your regulatory requirements, you should contact the appropriate agency in your state.

The concentrations reported below in units of parts per million (ppm) are maximum values.

All ENCAPSULATED in the polymer matrix.

California Proposition 65: WARNING these products can expose you to Chemicals regulated by Prop.65

<u>Weight Percent</u>	<u>Components</u>	<u>CAS-No.</u>
<=10 ppm	Formaldehyde	50-00-0
<=5 ppm	VCM	75-01-4
<=5 ppm	Methanol	67-56-1
<=5 ppm	Ethylhexylacrylate	103-11-7
<=5 ppm	Benzene ethyl	100-41-4
<=1 ppm	Styrene	100-42-5
In white and pastel sheets	Titanium dioxide	13436-67-7
In black and greyish sheets	Carbon black	1333-86-4

For more information go to - www.p65warnings.ca.gov

16. Other Information

Recommended Uses and Restrictions

Please consult the relevant product and/or application information for this product.

Further Information

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

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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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