

PLASTI SHIELD

PLS4896W4



SECTION I: IDENTIFICATION

Product Description	White polypropylene sheets; Plasti Shield®
Company Identification	Surface Shields,® Inc 8450 185th Street Tinley Park, IL 60487 1 (844) 466 6911
Emergency Number	Dial 911
Use(s) of the Substance	Product intended for use in a wide range of panel/sheet applications in temporary protection.

SECTION 2: HAZARD IDENTIFICATION

Physical Appearance	White polypropylene sheets
Immediate Concerns	When using or handling corrugated plastic sheets, as supplied, there are very low hazards.
OSHA Hazard Category	Combustible Dust
GHS Hazard Categories	Not classified
Signal Word: Warning!	This product as shipped is not classified as a combustible dust; however, a combustible concentration of dust may occur if fines are suspended in air (e.g. from cutting or sanding the Plasti Shield® sheets).
Pictogram:	There is no pictogram for a combustible dust hazard.

Rough edges of corrugated plastic sheets could result in minor cuts to hands. Appropriate gloves should be worn to prevent cuts and/or scraps.

Avoid contact with strong oxidizing agents. When working with the Corrugated plastic sheets at temperatures above the melting point, the material may begin to decompose producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, formaldehyde, aldehydes, oxides of nitrogen and other unidentified organic compounds that come from the breakdown of the materials used to make the sheets. Adequate ventilation should be provided to minimize exposures to vapors.

When cutting, shaping or modifying corrugated plastic sheets, other hazards may exist.

Potential Health Effects

Eyes	Dust from cutting may result and mechanically irritate the eyes; if using elevated temperatures, vapors may irritate eyes.
Skin	Cuts or scraps referenced above; if using elevated temperatures to soften the corrugated plastic sheets, exposure to molten resin may cause thermal burns.
Ingestion	Dust or debris from cutting may irritate the throat, mouth and stomach.
Inhalation	Inhalation of fine dust, from cutting or sanding, may cause irritation of the respiratory system; inhalation of vapors from use of elevated temperatures may also cause irritation of the respiratory system.
Chronic	Inhalation of fine dust is a potential carcinogen situation from respirable particles of carbon black and/or titanium dioxide.



Signal Word:	Warning!
	Titanium dioxide and carbon black have been classified by IARC as Group 2B carcinogens, possible human carcinogens, when they are inhaled as dusts. If dusty conditions occur from these products (e.g. during cutting or sanding), AVOID breathing dusts. The permissible exposure limit (PEL) for titanium dioxide (respirable dust) is 5 mg/m ³ . The PEL for carbon black is 3.5 mg/m ³ .

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

The primary composition of this product is polypropylene. This product contains a proprietary blend of components encapsulated within a polymer matrix. These components are not considered to be hazardous chemicals in the concentrations used per the OSHA HazCom Standard, 29 CFR 1910.1200. However, dusts containing titanium dioxide and carbon black are considered potential human carcinogens by IARC.

Chemical Name	CAS Number	Wt. %
Polypropylene	9010-79-1	70
Calcium Stuffing		25
Stabilizers/Additives/ Colorants	Trade secrets	<2
Titanium Dioxide	13463-67-7	0.1-2.0

SECTION 4: FIRST-AID MEASURES

The following applies should the corrugated plastic sheets be cut, sanded or otherwise processed which generates dust, debris or vapors.

Eye Contact	Wash immediately with plenty of water. If irritation persists, get medical attention.
Skin	For cuts and scraps, get medical attention. If molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe tissue damage. Get medical attention.
Ingestion	If swallowed, do not induce vomiting. Get medical attention.
Inhalation	Move to fresh air. If irritation persists or breathing difficult, get medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media	Foam, carbon dioxide (CO ₂), water spray
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, ketones, acrolein, formaldehyde, aldehydes, oxides of nitrogen, unidentified organic compounds and other possible toxic combustion products.
Explosion Hazard	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Special protective equipment for firefighters	Use self-contained breathing apparatus and full protective gear.
Sensitive to Static Discharge	Static discharge could be an ignition source for a combustible concentration of dust.
Sensitivity to Impact	N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

As supplied, the product presents no risk of spill or release.

General Procedures	Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
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SECTION 7: HANDLING AND STORAGE

General Procedures	Keep away from heat, sparks and flame. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Handling	If the product is cut or sanded, avoid exposure to dust and debris. Provide appropriate local ventilation at machinery and at places where dust can be generated. In addition, wear suitable respiratory equipment to avoid breathing dusts containing titanium dioxide and/or carbon black.
Storage	No special storage conditions are required. If multiple pallets of product are stacked, take appropriate measures to avoid leaning or tipping of pallets. This product may react with strong oxidizing agents and should not be stored near such materials. Store material in areas protected with automatic sprinklers.
Storage Temp.	60°C (140°F) Maximum

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls	Provide adequate room ventilation. Provide adequate ventilation in areas where vapors can be generated. Eliminate ignition sources in areas where dust where dust could be generated (e.g. cutting area). Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). It is recommended that all dust control equipment such as local exhaust ventilation contain explosion relief vents or an explosion suppression system.
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Personal Protective Equipment

Respiratory Protection	Not required under normal handling and processing. Should conditions exist that require respiratory protection, for example while cutting or sanding generating dusts, a NIOSH/MSHA approved respirator should be worn to avoid inhalation of dusts containing titanium dioxide and/or carbon black.
Eye Protection	When cutting or processing the product, wear safety glasses with side shields.
Body Protection	Wear protective gloves to avoid incidental cuts or scraps that could occur when handling the edges of product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Corrugated sheets, also called double wall.
Material Density	0.90 to 0.96 g/cc (not product density)
Appearance	White polypropylene sheets
Odor	None
Solubility in Water	N/A
Melting Point	160°C (320°F)
Boiling Point	N/A
Flash Point	N/A
Auto Ignition Temp	570°C (1058°F)

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability Conditions to Avoid	Stable Do not store product near heat or flame. When cutting or sanding, minimize dust generation and accumulation. Avoid contact with strong oxidizing agents, strong alkaline agents and strong acids.
Hazardous Decomposition Products	At elevated temperatures, the material will begin to decompose, producing vapors that can contain carbon monoxide, carbon dioxide, ketones, acrolein, formaldehyde, other aldehydes, oxides of nitrogen, other unidentified hydrocarbons and other possible toxic substances.

SECTION 11: TOXOLOGICAL INFORMATION

Acute Toxicity	Dust containing titanium dioxide and carbon black are considered nuisance dusts and are irritants to the upper airway system.
Repeated Dose Toxicity Carcinogenicity	No known chronic health effects. Titanium dioxide and carbon black are both classified as 2B by IARC, possible human carcinogens, by inhalation. OSHA considers titanium dioxide to be a possible human carcinogen.

SECTION 11: TOXOLOGICAL INFORMATION CONT.

Carbon black is not designated as a carcinogen by the U. S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Administration (OSHA). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies carbon black as A4, Not Classifiable as a Human Carcinogen. The U. S. National Institute of Occupational Safety and Health (NIOSH) 1978 criteria document on carbon black recommends that only carbon blacks with PAH level greater than 0.1% require the measurement of PAHs in air. As some PAHs are possible human carcinogens, NIOSH recommends an exposure limit of 0.1 mg/m³ for PAHs in air, measures as the cyclohexane-extractable fraction.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Polypropylene is an inert polymer and is believed to not to contribute to environmental toxicity.
Persistence and Degradability	The product is not readily biodegradable.
Bioaccumulative Potential	N/A
Recyclability	High polypropylene content. Recycle code 5.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Method	(1) Recycle (reprocess). (2) Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or provincial and federal regulations. (3) Landfilling in a licensed facility in accordance with local, state or provincial and federal regulations.
RCRA Hazard Class	This product is not judged to be a hazardous waste by any local, state or federal regulations; however, it may be listed as industrial waste in some states or provinces. This product is not listed in the U.S. federal hazardous waste regulations, 40 CFR 261.33 paragraphs (e) or (f), i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261 Subpart C. State or local hazardous waste regulations may apply if different from the federal.

SECTION 14: TRANSPORT INFORMATION

Special Shipping Notes	This product is not regulated by US DOT, IMO, IATA, Canadian TDG and associated regulations, ADR or RID.
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SECTION 15: REGULATORY INFORMATION**United States**

U.S. Toxic Substances Control Act (TSCA)	All component(s) comprising these products are compliant with TSCA. These products have no special requirements under TSCA (e.g. consent orders, test rules, 12(b) requirements, etc.).
OSHA Hazard Communication Rule	This product is not considered a hazardous material as shipped or at temperatures below the melting point according to OSHA definitions.
SARA Title III	This product is not subject to SARA Title III requirements.
SARA Section 313 Toxic Chemical List	No components listed.

Canada

Domestic Substances List (DSL):	All component(s) comprising this product are compliant with the DSL.
WHMIS (Workplace Hazardous Materials Information System)	This product is not considered a controlled substance under WHMIS. This SDS meets WHMIS format requirements.

SECTION 16: OTHER INFORMATION**HMIS Ratings**

Health	0
Flammability	1
Physical Hazard	0

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