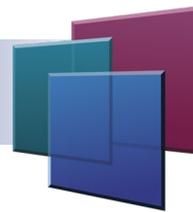


Safety Data Sheet



Fluted Polypropylene Sheet

1. Product details

Usage:	Plastic sheet products
Chemical characterization:	> 95 % Propylene/ethylene copolymer < 5 % stabilizers/additives/colorants (trade secrets) 0.1 – 2.0 % Titanium dioxide
	Additional for black products: Carbon black 0.1 – 2.0 %

2. Hazards identification

OSHA hazard category:	Combustible dust
GHS hazard categories:	Not classified
Warning:	<p>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. form cutting or sanding the sheets).</p> <p>Rough edges of 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.</p> <p>When working with sheets at temperatures above melting point, this 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 materials used to make the sheets. Adequate ventilation should be provided to minimize exposures to vapors.</p>

3. First aid measures

Inhalation:	Move subject to fresh air. If irritation persists or breathing difficult, get medical attention.
Skin contact:	For cuts and scrapes, 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. Seek medical attention.
Eye contact:	Flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion:	If swallowed, do not induce vomiting. Seek medical attention.

Safety Data Sheet



4. Fire – fighting measures

Suitable extinguishing measures:	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:	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.

5. Accidental release measures

General procedures:	As supplied, the product presents no risk of spill or release. 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).
---------------------	---

6. 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 temperature:	140°F (60°C) Maximum

Safety Data Sheet



7. Exposure control

Engineering controls:	Provide adequate room ventilation. Provide adequate ventilation in areas where vapors can be generated. Eliminate ignition sources in areas 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.
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.

8. Physical and chemical properties

Physical state:	Corrugated sheets
Color:	Opaque or various colors
Odor:	Not applicable
pH:	Not applicable
Melting point:	320°F (160°C)
Boiling point:	Not applicable
Decomposition temperature:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	1058°F (570°C)
Explosion limits:	Not applicable
Evaporation rate:	Not applicable
Vapor pressure:	Not applicable
Vapor density:	Not applicable

Safety Data Sheet



Material density: 0.90 to 0.96 g/cc (not product density)

Solubility: Not applicable

9. Stability and reactivity

Stability: Stable.

Conditions to avoid: 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.

10. Toxicological 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: No known chronic health effects.

Carcinogenicity: 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.

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.

11. Ecological information

Ecotoxicity: Polypropylene is an inert polymer and is believed to not contribute to environmental toxicity.

Persistence & degradability: The product is not readily biodegradable.

Bioaccumulation: No information available.

Safety Data Sheet



Recyclability: High polypropylene content. Recycle code 5.

12. 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.

13. Transport information

Special shipping notes: This product is not regulated by US DOT, IMO, IATA, Canadian TDG and associated regulations, ADR or RID.

14. Regulatory information

UNITED STATES

U.S. Toxic Substances Control Act: All components 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 COMM. 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 components 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.

Safety Data Sheet



15. Other information

SDS Prepared by: A&C Plastics

The information presented herein is believed to be factual and reliable. It is offered in good faith, but without guarantee, since conditions and methods for the use of our products are beyond our control. We recommend that the prospective user determine the suitability of our products and these suggestions before adopting them on a commercial scale.

A&C
PLASTICS, INC.