

Safety Data Sheet



Trupoly Polycarbonate Sheet

1. Product details

Usage:	Plastic sheet products
Chemical characterization:	Polycarbonate – 100%

2. Hazards identification

This material is classified as not hazardous under OSHA regulations. Under normal conditions of use, this product is not expected to create any unusual industrial hazards. Irritating gases/fumes may be given off during burning or thermal decomposition. Contact with hot material will cause thermal burns.

3. First aid measures

Inhalation:	Move subject to fresh air.
Skin contact:	If molten material contacts skin, cool rapidly with cold water and obtain medical attention for thermal burn.
Eye contact:	Flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion:	This material is not expected to be absorbed within the gastrointestinal tract, so induction of vomiting should not be necessary.

4. Fire – fighting measures

Suitable extinguishing measures:	Water spray or foam CO2 is less recommended due to lack of cooling capacity.
Specific fire hazards:	This product is a combustible thermoplastic material the burns vigorously with intense heat.
Special protective equipment & precaution for fire fighters:	Wear a self-contained breathing apparatus and full protective gear.

5. Accidental release measures

Personal precaution:	Provide adequate ventilation. Wear personal protective equipment. Do not breathe dust.
Environmental precaution:	Do not allow to enter into soil, waterbodies, or drains.
Methods for cleaning up:	Avoid generation of dust. Remove all sources of ignition. Sweep or scoop up into closed containers for disposal.

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6. Handling and storage

Handling:	Avoid mechanical contact with eyes. Use good industrial hygiene practices. Provide adequate ventilation. Secondary operations such as grinding, sanding or sawing may produce a dust explosion hazard. Use aggressive housekeeping activities to prevent dust accumulation; employ bonding, grounding, venting and explosion relief provisions in accordance with accepted engineering practices.
Storage:	Store in a cool shady area. No special technical protective measures required.

7. Exposure control

Exposure limits:	Not applicable.
Respiratory protection:	None required under normal conditions.
Hand protection:	None required under normal conditions.
Eye protection:	None required under normal conditions.
Skin & body protection:	None required under normal conditions.
Other protective measures:	None required under normal conditions.

8. Physical and chemical properties

Physical state:	Flat or corrugated plastic sheets
Color:	Clear or colored
Odor:	Not applicable
pH:	Not applicable
Melting point:	300°F (150°C)
Boiling point:	Not applicable
Change in state:	Tg=140-150°C, DSC according to ASTM D 792
Flash point:	>450°C ASTM D 1929
Auto-ignition temperature:	>650°C ASTM D 1921
Explosion limits:	Not applicable
Evaporation rate:	Not applicable
Density:	1.2 gr/cm ³
Solubility:	Insoluble

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9. Stability and reactivity

Stability:	Stable.
Conditions to avoid:	Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation.
Materials to avoid:	Oxidizing agents or strong mineral acids can cause reaction.
Thermal decomposition:	Caused by fire or overheating during improper processing. Fumes damaging to health may be released.
Hazardous decomposition products:	Carbon monoxide (CO): is highly toxic if inhaled, present in combustion fumes of all organic materials Carbon dioxide (CO ₂): in sufficient concentrations can act as an asphyxiant.
Hazardous polymerization:	Will not occur.

10. Toxicological information

Independent testing and many years of experience confirm that this material has very low toxicity. The International Agency for Research on Cancer does not list this material as a confirmed or suspected carcinogen. In rats an acute LD50 > 5 gr/Kg of body weight. Industrial hygiene studies have shown that under normal and expected conditions of use of PC materials, exposures are well below applicable limits.

Acute vapor exposure:	Processing fumes from similar products are not considered toxic. In acute inhalation tests, laboratory rats were exposed to processing fumes at concentrations exaggerating those that would likely occur in workplace situations. No death or signs of toxicity, except transient irritancy in some cases, were noted during the 6-hour fume exposure tests. There were no distinct or consistent treatment related tissue or organ changes noted in gross necropsies.
Skin contact:	Product not considered primary skin irritant. Draize Skin Primary Irritation Score (rabbit) for similar products, in finely divided form, for a 24-hour exposure is 0.
Eye contact:	Product not considered primary irritant. When similar products, in finely divided form, were placed into the eyes of rabbits, slight transient redness or discharge occurred – consistent with the expected slightly abrasive nature of product.
Carcinogenicity:	Non-carcinogenic

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11. Ecological information

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 available.
Persistence & degradability:	Biodegradation period: tens of years.
Bioaccumulation:	No information available.

12. 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. Incineration in accordance with federal, state and local regulations – collected processing fume condensates and incinerator ash should be tested to determine waste classification. 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 in accordance with all national and local regulations at properly permitted or authorized facilities.

13. Transport information

Not subject to national and international regulations on the transport of dangerous goods.

14. Regulatory information

OSHA Hazard Communication:	Non-hazardous
Toxic Substances Control Act:	Listed
CERCLA Hazardous Substances (40 CFR 302):	None
SARA Section 311/312:	Non-hazardous
SARA Section 302 (40 CFR 372.65):	None
RCRA Hazardous Wastes (40 CFR 261):	Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.
California Proposition 65:	WARNING: This product can expose you to chemicals including Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov .

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<u>Weight Percent</u>	<u>Components</u>	<u>CAS-No.</u>
<=3 ppm	Methylene Chloride	75-09-2
Trace element	Bisphenol A	80-05-7

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.