



MSDS

Material Safety Data Sheet
PC-GF20

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Revision Date: 2014.12.16 (Rev.0)

Product Name: PC-GF20
Chemical Name: POLYCARBONATE
CAS NO: 25971-63-5 (POLYMER)
Product Use: Engineering Plastic Stock Shape for Machining
Company Identification: PSR Industrial Ltd.
Namdongseo-ro, Namdong-Gu, Incheon-City, Korea
(TEL:82-32-677-2971, FAX:82-32-677-2974)

Hazard Identification

Emergency Overview

NFPA Rating : Health = 1, Flammability = 1, Reactivity = 0
HMIS Rating : Health = 0, Flammability = 1, Reactivity = 0

Eye

Dust and particles, like other inert materials, are mechanically irritating to eyes.

Skin

Hot and molten material has the potential to cause thermal burns.

Inhalation

Shapes not respirable.

Ingestion

No specific information available on the product.

Composition, information on Ingredients

Additives not hazardous by 29 CFR 1910.1200.

Identity	CAS#	Concentration(%)
Polycarbonate	25971-63-5	65~75
Glass fiber	65997-17-3	19~21
Other additives	-	<3
Carbon Black		<1

First Aid Measures

Eye

Immediately flush eyes with plenty of water. Seek medical attention if discomfort persists.

Skin

If hot and molten polycarbonate gf20 contact skin, cool rapidly with cold water. If polycarbonate gf20 is stuck to skin, do not remove, and seek medical attention. And allow adhered polycarbonate gf20 to come off naturally.



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Inhalation

Polycarbonate gf20 is not likely to be inhaled due to physical form. When gas from molten polycarbonate gf20 is inhaled, move to fresh air.

Ingestion

If a significant quantity has been swallowed, give plenty of water to dilute. Seek medical attention.

Note to Physicians

Processing vapors may cause irritation to the eyes, skin and respiratory tract. In cases of severe exposure, nausea and headache can also occur.

Fire Fighting Measures

Flash Point : 382°C (720°F)

Autoignition Temperature : 630°C (1166°F)

Unusual Fire, Explosion Hazards : None Known.

Hazardous Product of Combustion

Carbon oxide and hydrocarbon fragments.

Extinguishing Media : Foam or water spray.

Unsuitable Extinguishing Media : Carbon dioxide and dry chemical are not recommended because of their lack of cooling capacity may permit re-ignition.

Firefighting Instructions

Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear (bunker gear). Product burns with a very hot, but very faint blue flame. Water, foam and dry chemical may cause damage to electrical equipment.

Accidental Release Measures

Personal precaution

Sweeping to prevent fall.

Environmental protection

No special measures.

Handling and Storage

Handling

During machining of the stock shapes, evacuate swarf to prevent slipping hazard.



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Storage

Store in well-ventilated area away from heat and sunlight.

Exposure Controls / Personal Protection

Engineering Controls

A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended.

Protective Equipment

Eyes: Wear safety glasses with side shields should be sufficient for most processing and machining runs.

Skin: When thermal or melt processing, wear long pants, long sleeves and well insulated gloves.

Dust Limit Value

Respirable dust : 6mg/cm³. Inhalable dust : 10mg/cm³.

Exposure Guidelines

Glass Fiber

PEL(OSHA) : No information

TLV (ACGIH) : 5mg/m³ inhalable fraction

Physical and Chemical Properties

Appearance:	Solid
Smell:	None
PH:	Not applicable
Water Solubility:	Insoluble
Boiling Point:	Not applicable
Melting Point:	Not applicable
Vapor Pressure:	Not applicable
Specific Gravity:	1.33 ~ 1.37g/cm ³

Stability and Reactivity

Chemical Stability

Stable under normal conditions of use and storage.

Condition to Avoid

Heating above 320°C (608°F).

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, bisphenol-A, diphenylcarbonate and phenol derivatives.

Toxicological Information

No specific information available on the product.



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Ecological Information

Ecotoxicity

No specific information available on the product.

Environmental Information

This material is considered to be non-biodegradable.

Aquatic Toxicity

Toxicity is expected to be low based on insolubility of polymer in water.

Disposal Considerations

Recycling is encouraged. Dispose in accordance with local regulations.

Transportation Information

This product is not subject to transport regulations.

Regulatory Information

OHSA: This product is not considered hazardous under OHSA.

TSCA: All ingredients are listed.

CERCLA: Not Applicable.

SARA 302/304: No extremely hazardous substances.

SARA 313: This product is not contain any toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

California Proposition 65

Carbon Black : Listed (Feb.21.2003 Carcinogenic) – airborne, unbound particles of respirable size.

Glass Fiber : Listed (July.1.1990 Carcinogenic) – airborne, unbound particles of respirable size.

Other Information

This product is not intended for use in medical applications involving permanent implantation in the human body. The information contained herein is based on the present state of our knowledge. We don't suggest or guarantee that any hazards listed herein are the only ones that exist. PSR Industrial Ltd. Makes no warranty of any kind concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and this material may aggravate the effects of other materials.

Users have the sole responsibility to determine the suitability of the materials of any use and the manner of use contemplated. Users must meet all applicable safety and health standards.