MSDS
MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

PRODUCT NAME: Polycarbonate

PHONE NUMBERS:

BAYER EMERGENCY:	(412) 923-1800
BAYER INFORMATION:	1-800-628-5084
CHEMTREC:	1-800-424-9300

II. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid tint

ODOR: Slight

PERCENT VOLATILES: N/A

MELTING POINT: 428 – 446°F (220-230°C)

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY: 1.2

III. STABILITY AND REACTIVITY

STABILITY: Stable

MATERIALS TO AVOID: None known

IV. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation should be consulted for guidance about adequate ventilation. In the event of thermal decomposition from overheating the product, evacuate the work area, shut down equipment and provide general ventilation to the room prior to reoccupying.

PROTECTIVE EQUIPMENT

SKIN: None required but fabric gloves are recommended when handling molten material

IV. EXPOSURE CONTROLS/PERSONAL PROTECTION - continued

EYE: Safety glasses are recommended as a good industrial hygiene and safety practice.

RESPIRATOR: NIOSH/MSHA – approved dust respirator recommended if the airborne dust concentration is near or exceeds the nuisance dust exposure limits.

ADDITIONAL PROTECTIVE MEASURES:

The greatest potential for injury occurs when working with molten polymeric resins. During this type of operation it is essential that all workers in the immediate area wear eye and skin protection as protection from thermal burns. Purgings should be collected as small flat thin shapes or thin strands to allow for rapid cooling. Precautions should be taken against auto-ignition of hot, thick masses of the plastic. Quench with water. Grinder dust is an exposure hazard.

EXPOSURE GUIDELINES:

INGREDIENT	AGENCY	VALUE
Nuisance Dust	OSHA-PEL	15mg/m^3
Respirable Dust	OSHA-PEL	5mg/m^3

V. HEALTH HAZARDS IDENTIFICATION

ACUTE OR IMMEDIATE EFFECTS

SKIN: **C**ontact with hot material will cause thermal burns

EYES: Mechanical irritation to the eyes may occur due to exposure to fines. Eyes may become red and scratchy and may tear.

INHALATION: Toxic gases/fumes given off during burning or thermal decomposition cause respiratory irritation

CHRONIC/CARCINOGENICITY: Not listed as a carcinogen

VI. FIRST AID MEASURES

SKIN: Wash affected areas with soap and water. See a physician if thermal burn occurs

EYES: Flush with plenty of lukewarm water. See a physician or ophthalmologist for follow-up if irritation is present and persists

INHALATION: Move to an area free from risk of further exposure. Give oxygen or artificial respiration as needed. Obtain medical attention

VII. FIRE FIGHTING MEASURES

AUTOIGNITION TEMPERATURE: Above 842°F (450°C) ASTM D-1929B

VII. FIRE FIGHTING MEASURES - continued

HAZARDOUS PRODUCTS OF COMBUSTION:

Carbon monoxide, carbon dioxide, bisphenol A, diphenyl carbonate, phenol and phenol derivatives. Traces of aliphatic and aromatic hydrocarbons, aldehydes and acids.

EXTINGUISHING MEDIA: Water; carbon dioxide, dry chemical, foam

SPECIAL FIRE FIGHTING INSTRUCTIONS/PRECAUTIONS:

Full emergency equipment with self-contained breathing apparatus must be worn by firefighters

VIII. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE:

If molten material is spilled, allow it to solidify. Remove material mechanically by a method which minimizes the generation of airborne dust and place in appropriately marked containers.

IX. HANDLING AND STORAGE

HANDLING:

When handling flaked material or during secondary operations, vent storage bins, conveyors, dust collectors, etc. ground handling equipment, keep open flames, sparks and heat away from dusty areas. Maintain highest standards of housekeeping to prevent accumulation of dust.

STORAGE:

Max 200°F (93°C) material should be stored in a clean, dry environment in sealed containers. Material must be dried before processing

X. DISPOSAL CONSIDERATIONS

DISPOSAL: Material may be incinerated or landfilled in compliance with Federal, State, Provincial and Local environmental control regulations.

XI. DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

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