SABIC Innovative Plastics™



MATERIAL SAFETY DATA SHEET

Print date: 29-Oct-2008 Revision Number: 1 Revision date: 29-Oct-2008

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trade Name: CYCOLOY* **Product ID:** C1200HF -701

Product Description: Poly (bisphenol-A-carbonate) [CASRN 111211-39-3]/Poly

(acrylonitrile-butadiene-styrene) [CASRN 9003-56-9] blend

Product Type: Commercial Product

Recommended use:May be used to produce molded or extruded articles or as a

component of other industrial products.

Company: SABIC Innovative Plastics

One Plastics Avenue Pittsfield, MA 01201 USA

(413) 448-5800 www.sabic-ip.com

Emergency Telephone Number: 800/447-4545 **Emergency Transportation/CHEMTREC (24 HOUR):** 800/424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS:

Chemical Name	CAS Number	Weight %
Carbon black	1333-86-4	0.1 - 1.0

If present, components listed above are physical or health hazards as defined in the Hazard Communication Standard. The quantities represent typical or average values for the materials shown. Additional compositional data are provided in Section 15, REGULATORY INFORMATION, subject to supplier notification requirements.

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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- · Pellets with slight or no odor.
- Spilled material may create slipping hazard.
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns.
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

HMIS Rating	Health: 0	Flammability: 1 Reactivity: 0
Skin Contac	et:	Pellets not likely to cause skin irritation.
Eye Contact	::	Resin particles, like other inert materials, are mechanically irritating to eyes.
Inhalation:		Pellet inhalation unlikely due to physical form.
Ingestion:		Pellet ingestion unlikely due to physical form.
Sensitizatio	n:	No information available
Other Inforn	nation:	OSHA, IARC and/or NTP have listed carbon, titanium dioxide, crystalline silica (quartz), respirable glass and certain heavy metals present in some colorants and fillers, as carcinogens. If these materials are present in this product at significant quantities, they are shown in Section 2. These materials are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.
Chronic/Carcinoge	enic Information	
Chronic Tox	cicity:	No information available
Resin Issue	s:	Processing fumes may cause irritation to the eyes, skin, and

Aggravated Medical Conditions: MEDICAL RESTRICTIONS: There are no known health effects

aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors.

respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing fume condensates on ventilation ductwork, molds, and other surfaces

can cause irritation and injury to skin.

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4. FIRST AID MEASURES

Inhalation: Move to fresh air in case of accidental inhalation of fumes from

overheating or combustion. If symptoms persist, call a physician.

Skin Contact: Cool skin rapidly with cold water after contact with hot polymer.

Wash off immediately with soap and plenty of water. Consult a

physician.

Eye Contact: Immediately flush with plenty of water. After initial flushing, remove

any contact lenses and continue flushing for at least 15 minutes. If

eye irritation persists, consult a specialist.

Ingestion:No hazards which require special first aid measures.

Precautions: Processing fumes inhalation may be irritating to the respiratory

tract. If symptoms are experienced remove victim from the source of contamination or move victim to fresh air and obtain medical

advice.

5. FIRE-FIGHTING MEASURES

Autoignition Temperature: Not determined

Explosive Limits

upper: Not determined lower: Not determined

Suitable Extinguishing Media: Water spray mist or foam.

Extinguishing Media not be used for Safety Reasons: Carbon dioxide and dry chemical are not recommended because

their lack of cooling capacity may permit re-ignition

Hazards from Combustion Products: Fire will produce dense black smoke containing hazardous

combustion products, carbon oxides, hydrocarbon fragments,

hydrogen cyanide, nitrogen oxides.

Special Protective Equipment for Firefighters: Do not enter fire area without proper protection including self-

contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

Specific Hazards: Take precautionary measures against static discharges. During

processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors.

6. ACCIDENTAL RELEASE MEASURES

Clean up: Sweep up and shovel into suitable containers for disposal. Do not

create a powder cloud by using a brush or compressed air.

Personal Precautions: See section 8.

Environmental Precautions: Do not flush into surface water or sanitary sewer system. Should

not be released into the environment.

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7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety

practice. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of the

mixing and processing equipment must be earthed.

Storage: Keep tightly closed in a dry and cool place. Keep away from heat

and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No components with information, unless noted below

Chemical Name	OSHA PEL Hr TWA	ACGIH	Canada - AlbertaLimits (8 Hr)	Mexico OEL Data	SABIC-IP Recommended Exposure Limit (8 Hr)*
Carbon black 1333-86-4	3.5 mg/m ³	3.5 mg/m ³	3.5 mg/m ³	3.5 mg/m ³	No Information

Engineering Measures to Reduce Exposure: Provide for appropriate exhaust ventilation at machinery.

Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection. Handle in accordance with good industrial hygiene and safety practice.

Hand Protection: Protective gloves

Eye Protection: Safety glasses with side-shields or chemical goggles. In addition,

use full-face shield when cleaning processing fume condensates

from hood, ducts, and other surfaces.

Respiratory Protection: When using this product at elevated temperatures, implement

engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid gases and particulate matter) if processing fumes are not adequately controlled or operators experience symptoms of overexposure. If dust of powder are produced from secondary operations such as sawing or grinding,

use a respirator approved for protection from dust.

Skin and Body Protection: Long sleeved clothing

Hygiene Measures: When using, do not eat, drink or smoke.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:SolidAppearance:PelletsColor:VariousOdor:None or slight

Melting point/range: This product does not exhibit a sharp melting point but softens

gradually over a wide range of temperatures.

Autoignition Temperature:Not determinedVapor Pressure:NegligibleWater Solubility:InsolubleEvaporation Rate:Negligible

Specific gravity: >1; (water=1)
VOC content (%): Negligible

Explosive Limits

upper: Not determined lower: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions. Hazardous polymerization does not occur.

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Conditions to Avoid: To avoid thermal decomposition, do not overheat. Heating can

release hazardous gases. Do not exceed melt temperature recommendations in product literature. In order to avoid autoignition/hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat, shapes or thin strands to allow for rapid cooling. Quench in water. Do not allow product to remain in barrel at elevated temperatures for extended

periods of time: purge with a general purpose resin.

Hazardous Decomposition Products: Processing fumes evolved at recommended processing conditions

may include trace levels of hydrocarbon fragments, phenols, alkylphenols, diarylcarbonates, styrene, acrylonitrile, acrolein, acetophenone, acetaldehyde, cumene, alpha methylstyrene, 4-

vinylcyclohexene.

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50/oral/rat: >5000 mg/kg **LD50/dermal/rabbit:** >2000 mg/kg

Inhalation: Pellet inhalation unlikely due to physical form.

Eye Contact: Resin particles, like other inert materials, are mechanically irritating

to eyes.

Skin Contact: Pellets not likely to cause skin irritation.

Ingestion: Pellet ingestion unlikely due to physical form.

Chronic Toxicity: No information available

Subchronic Toxicity: No data available

Primary Irritation: Substance does not generally irritate and is only mildly irritating to

the skin.

IARC:Not listedOSHA:Not regulatedNTP:Not tested

Remarks: The toxicological data has been taken from products of similar

composition.

Special Studies: Carbon Black: The International Agency for Research on Cancer

(IARC) has determined that carbon black is a class 2B known animal and possible human carcinogen by the route of inhalation. Rats exposed to high doses of carbon black by inhalation developed statistically significant increases in lung fibrosis and lung

tumors.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: Do not flush into surface water or sanitary sewer system.

Other information: Ecological damages are not known or expected under normal use.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Recycling is encouraged. Landfill or incinerate in accordance with

federal, state and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine

waste classification.

US EPA Waste number: None

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14. TRANSPORT INFORMATION

Transport Classification:Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.

DOT

ADR/RID/ADNR

IMDG

ICAO

IATA-DGR

MEXICO

15. REGULATORY INFORMATION

International Inventories:

TSCA (USA): Listed DSL/NDSL (Canada): Listed **EINECS/ELINCS (Europe):** Listed **ENCS (Japan):** Listed IECSC (China): Listed **KECL** (Korea): Listed PICCS (Philippines): Listed AICS (Australia): Listed

Other Inventory Information:

A "Listed" entry above means all chemical components are on the respective inventory list and/or a qualifying exemption exists for one or more components. A "Not listed" entry above indicates one or more components is restricted from import or manufacture into that country/region.

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

SARA (311, 312) hazard class:

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

Reactive Hazard

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Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS hazard class:

Non-controlled

California Proposition 65:

Components in this product known to the State of California to cause cancer and/or reproductive effects, are listed below:

Chemical Name	Weight %	California Proposition 65:
Carbon black	0.1 - 1.0	Listed: February 21, 2003 Carcinogenic. (airborne, unbound particles of respirable size)
1333-86-4		
Acrylonitrile	<100 ppm	Listed: July 1, 1987 Carcinogenic.
107-13-1		
Ethylbenzene	<100 ppm	Listed: June 11, 2004 Carcinogenic.
100-41-4		

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16. OTHER INFORMATION

CYCOLOY* is a registered trademark of SABIC Innovative Plastics

Prepared by: Product Stewardship & Toxicology.

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End of Material Safety Data Sheet

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