



MATERIAL SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trademark: Product Name: Product Description:	THERMOCOMP* UC006XXH -1H1D001 Polyphthalamide [CASRN 27135-32-6]
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
Manufacturer:	SABIC Innovative Plastics 945 South Marr Road Columbus, Indiana 47201 United States
Emergency Telephone Number:	800/447-4545
Emergency Transportation/CHEMTREC (24 HOUR):	800/424-9300
E-mail:	productinquiries@sabic-ip.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS:

Chemical Name	CAS Number	Weight %
Carbon fiber	7440-44-0	10 - 30

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.





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. See below for additional effects.
- 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 Contact:		I	Not a hazard	with pellets during normal industrial use.
	Eye Contact:			Resin particle to eyes.	es, like other inert materials, are mechanically irritating
	Inhalation:		I	Pellet inhalat	ion unlikely due to physical form.
	Ingestion:		I	Pellet ingesti	on unlikely due to physical form.
	Sensitization:		I	No informatio	on available on this product
	Other Information	:	(crystalline sil present in so materials are are shown in the plastic ma	and/or NTP have listed carbon, titanium dioxide, ica (quartz), respirable glass and certain heavy metals, me colorants and fillers, as carcinogens. If these present in this product at significant quantities, they Section 2/3. These materials are essentially bound to atrix and are unlikely to contribute to workplace der recommended processing conditions
Chro	nic/Carcinogenic Ir	nformation			
	Chronic Toxicity:		I	No informatio	on available
	Processing Issue	s:	 	respiratory tra headache ca condensates	apors may cause irritation to the eyes, skin, and act. In cases of severe exposure, nausea and n also occur. Grease-like processing vapor on ventilation ductwork, molds, and other surfaces itation and injury to skin.
	Aggravated Medic	cal Conditions:	i	aggravated b individuals ar	ESTRICTIONS: There are no known health effects y exposure to this product. However, certain sensitive nd individuals with respiratory impairments may be xposure to components in the processing vapors.





4. FIRST AID MEASURES		
If Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.	
On skin contact:	Immediately cool the skin by rinsing with cold water after contact with hot material. Wash off immediately with soap and plenty of water. Consult a physician.	
On contact with eyes:	Immediately flush with plenty of water. After initial flushing, remo any contact lenses and continue flushing for at least 15 minutes. eye irritation persists, consult a specialist.	
On ingestion:	No hazards which require special first aid measures.	
Precautions:	Processing vapors 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-FIGH	TING MEASURES	
Autoignition Temperature:	No information available	
Explosive Limits		
upper: lower:	Not determined Not determined	
Explosive Properties:	Material is not sensitive to mechanical impact, but is sensitive to static discharge under dust cloud conditions	
Suitable Extinguishing Media:	Use dry chemical, CO2, water spray or "alcohol" foam. Water is best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capaci may permit re-ignition on larger resin fires (blobs/drools/pigs etc.	
Unsuitable Extinguishing Media for Safety Reasons:	Do not use a solid water stream as it may scatter and spread fire	
Hazards from Combustion Products:	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments.	
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure- demand, MSHA/NIOSH (approved or equivalent) and full protect gear.	
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:

Personal Precautions:

Environmental Precautions:

Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.

See section 8.

Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

7. HANDLING AND STORAGE

Handling:

Storage:

Handle in accordance with good industrial hygiene and safety practices. 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.

Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition.





8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No components with information, unless noted below

Chemical Name	US OSHA PEL (8 Hr)	ACGIH	Canada - Alberta (8 Hr)	Mexico OEL Data	SABIC Recom.(8 Hr)*
Carbon fiber 7440-44-0	 2.5 mg/m³ Respirable dust. 5 mg/m³ Respirable fraction. 10 mg/m³ Total dust. 	2 mg/m ³ Respirable fraction.	2 mg/m ³ Respirable dust.	2 mg/m ³ 10 mg/m ³	No Information

*SABIC Innovative Plastics Recommended Exposure Limits have been established for certain chemicals.

Engineering Measures to Reduce Exposure:	Handle in accordance with good industrial hygiene and safety practice. 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.
Hand Protection:	Protective gloves should be worn
Eye Protection:	Safety glasses with side-shields or chemical goggles. In addition, use full-face shield when cleaning processing vapor 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 vapors are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.
Body Protection:	Long sleeved clothing
Hygiene Measures:	When using, do not eat, drink or smoke.





9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Appearance: Color: Odor:

Melting point/range:

Autoignition Temperature:

Flash Point: Vapor Pressure: Water Solubility: Evaporation Rate:

Decomposition temp. (°C) : Specific gravity: VOC content (%):

Explosive Limits

Stability:

upper: lower: Solid Pellets Varies None or slight

This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.

No information available

The product is not flammable Negligible Insoluble Negligible

420 °C >1; (water = 1) Negligible

Not determined Not determined

10. STABILITY AND REACTIVITY

Stable under ambient conditions. Hazardous polymerization does not occur.

To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous. Do not exceed melt temperature recommendations in product literature. Purgings of hot material should be collected in small, flat, thin shapes and quenched with water to allow for rapid cooling. Do not allow product to remain in barrel at elevated temperatures for extended periods of time.

Materials to avoid are:

Conditions to Avoid:

Hazardous Decomposition Products:

strong acids and oxidizing agents.

Process vapors under recommended processing conditions may include trace levels of hydrocarbons, carbon oxides, nitrogen oxides (NOx), ammonia, hydrogen cyanide (hydrocyanic acid), aldehydes, cyclopentanone, sulfur oxides.





11. TOXICOLOGICAL INFORMATION

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:	Not a hazard with pellets during normal industrial use.
Ingestion:	Pellet ingestion unlikely due to physical form.
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Primary Irritation:	Substance does not generally irritate and is only mildly irritating to the skin.
IARC: OSHA: NTP:	Not listed Not regulated Not tested
Remarks:	The toxicological data has been taken from products of similar composition.
Special Studies:	No Information

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:
Other information:

Do not flush into surface water or sanitary sewer system.

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.





14. TRANSPORT INFORMATION

Transport Classification:

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

DOT

ADR/RID/ADN

IMDG

ICAO

IATA-DGR

MEXICO





15. REGULATORY INFORMATION

International Inventories:

TSCA (USA):	Listed
DSL (Canada):	Listed
EINECS/ELINCS (Europe):	Not listed
ENCS (Japan):	Not listed
IECSC (China):	Listed
KECL (Korea):	Listed
PICCS (Philippines):	Not 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. Articles are exempt from registration and are therefore not listed on the national chemical inventories.

SARA (313) Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)

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	N
Chronic Health Hazard	N
Fire Hazard	N
Sudden Release of Pressure Hazard	N
Reactive Hazard	Ν

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:

This product does not contain components known to the State of California to cause cancer and/or reproductive effects.

RoHS EU Directive 2002/95/EC:

The subjected product is in compliance with EU RoHS Directive 2002/95/EC. All below chemicals are not employed in the manufacture of the product: a.Cadmium and its compounds, b.Lead and its compounds, c.Mercury and its compounds, d.Hexavalent chromium compounds, e.Polybrominated biphenyls (PBBs), f.Polybrominated diphenyl ethers (PBDEs including Deca-BDE). The trace levels of heavy metals may be present as impurities within threshold limits (<0.1% for Pb, Hg, Cr VI, and <0.01% for Cd). We are disclosing this information, to the best of our knowledge, based upon data from our raw material manufacturers.





16. OTHER INFORMATION

THERMOCOMP* is a trademark of SABIC Innovative Plastics IP BV

Prepared by: Product Stewardship & Toxicology.

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End of Material Safety Data Sheet