

Safety Data Sheet

TECAPAI™ CM XP730 black



ISSUE DATE: 02/11/2019

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TECAPAI CM XP730
SYNONYMS: Carbon fiber filled PAI compression molded
PRODUCT COLORS: Black

MANUFACTURER: Ensinger Special Polymers, Inc.
DIVISION: Stock Shapes
ADDRESS: 12331 Cutten Road, Houston, TX 77066

EMERGENCY PHONE: (281) 580-3600
OTHER CALLS: (856) 227-0500

CHEMICAL NAME: Polyamide-imide
CHEMICAL FAMILY: Polyimide
CHEMICAL FORMULA:

PRODUCT USE: Stock shape for machining
SECTION 1 NOTE: Created October 8, 2018

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Mechanical injury only

ROUTES OF ENTRY: Eyes

POTENTIAL HEALTH EFFECTS:

EYES: Solid or dust causes irritation or corneal injury due to mechanical action.

SKIN: Essentially nonirritating to skin. Mechanical injury only. Molten material may burn skin.

INGESTION: Single dose oral LD50 has not been determined. Single dose oral toxicity is believed to be very low. Now hazards anticipated from ingestion incidental to industrial exposure.

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INHALATION: Dust may cause irritation to upper respiratory tract. At room temperature, exposure to vapors are unlikely due to physical properties, normal processing temperatures may generate vapors, which may cause irritation if ventilation is inadequate.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	CAS NO.:
Polyamide-imide	Proprietary
Carbon Fiber	7440-44-0

The non-hazardous components and exact percentage of the composition have been withheld as a trade secret.

This product contains a proprietary blend of components encapsulated within a polymer matrix. These components are not regarded as hazardous under 2012 OSHA Hazard Communication Standard; 29CFR Part 1910.1200.

4. FIRST AID MEASURES

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Mechanical effects only.

SKIN: Wash off in flowing water or shower.

INGESTION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling. Call a poison control center/physician, if patient feels unwell.

INHALATION: Remove to fresh air, if effects occur. Consult a physician.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, foam, or dry chemical

UNUSUAL FIRE AND EXPLOSION HAZARDS: With carbonization and incomplete combustion toxic gases develop, predominantly carbon dioxide and carbon monoxide

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide

SECTION 5 NOTES: A self-contained breathing apparatus and suitable protective clothing should be worn in fore conditions. Dust is ignitable, but will not sustain combustion. A high temperature source of ignitions is required

6. ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Ventilate the area and prevent access to unauthorized people. Wear suitable personal protective equipment. Do not allow entry to drains, water courses or soil. Prevent spreading by use of suitable barriers. Take up with suitable equipment, fill up in air-tight containers and give further treatment as soon as possible.

7. HANDLING AND STORAGE

HANDLING AND 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 processing equipment must be earth ground. Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition.

OTHER PRECAUTIONS: Obtain special instructions, before use. Do not breathe dust. Wash hands thoroughly after handling. Do not eat, drink or smoke; when machining this product. Use personal protective equipment as required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Standard ventilation required
VENTILATION:	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations
RESPIRATORY PROTECTION:	For most conditions a dust mask is sufficient; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.
EYE PROTECTION:	Safety glasses with side shields should be sufficient for most operations; however, for dusty operations wear chemical goggles. If vapor exposure causes eye discomfort, use a full-face respirator
SKIN PROTECTION:	No precautions other than clean body-covering clothing should be needed.
OTHER PROTECTIVE CLOTHING /EQUIPMENT:	None known
EXPOSURE GUIDELINES:	
Poly(amide-imide) polymer	
OSHA:	PEL 15 mg/m ³
Carbon Fiber	
OSHA	PEL not determined
ACGIH	TLV not determined
NIOSH	REL not determined
Particulates not otherwise regulated:	
OSHA:	Particulates not otherwise regulated: OSHA (PEL) 15 mg/m ³ (TWA, Total Dust) OSHA (PEL) 5 mg/m ³ (TWA, Respirable Dust)
ACGIH:	Particulates not otherwise regulated: ACGHI (TLV) 10 mg/m ³ (TWA, Total Dust)

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Black
ODOR:	None
PHYSICAL STATE:	Solid
SOFTENING POINT:	276°C (529 °F)
DECOMPOSITION TEMPERATURE:	Not available
AUTOIGNITION TEMPERATURE:	Not available
SPECIFIC GRAVITY (H ₂ O = 1):	~1.47 g/cm ³
SOLUBILITY IN WATER:	Insoluble

10. STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions.
CONDITIONS TO AVOID (STABILITY):	High temperatures
INCOMPATIBILITY (MATERIAL TO AVOID):	Concentrated sulfuric acid
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	By strong overheating of the material carbon oxides.
HAZARDOUS POLYMERIZATION:	Not applicable
CONDITIONS TO AVOID:	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.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:	In solid state, this material is not considered as being harmful to human health.
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Signs and Symptoms of Overexposure:

Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Skin irritation signs and symptoms may include a burning sensation, redness and swelling. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

Chronic Effects

Carbon fiber

Carbon dust can be liberated upon machining. Carbon fiber dust can cause allergic skin reactions in susceptible individuals. Overexposure for 4 to 10 years to carbon dust can cause graphite pneumoconiosis (a disease of the lungs).

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No data - This material does not harm the environment, but is not biodegradable.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of contents/containers in accordance with local, regional, national and international regulations.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: Not regulated

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): In compliance with TSCA Inventory requirements for commercial purposes.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): This product contains no known toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40CFR372

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Toxic Substance Control Act list (TSCA): Listed on inventory.

Canadian Domestic Substances List (DSL): Listed on inventory.

Australian Inventory of Chemical Substances (AICS): One or more components not listed on inventory.

Japanese Existing and New Chemical Substances (MITI List) (ENCS): Listed on inventory.

Korean Existing Chemicals List (ECL): Listed on inventory.

Philippine Inventory of Chemicals and Chemical Substances (PICCS): One or more components not listed on inventory.

Inventory of Existing Chemical Substances (China) (IECS): Listed on inventory.

EU list of existing chemical substances (EINECS): In compliance with inventory

S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): Not regulated.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65): Supplier notification required

US. EPA CERCLA Hazardous Substances (40 CFR 302:): Not regulated

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5): Not regulated

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323): Not regulated

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65):

Substances known to the state of California to cause cancer: None known.

Substances known to the state of California to cause birth defects or other reproductive harm: None known. For more information go to www.P65Warnings.ca.gov.

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16. OTHER INFORMATION

ADDITIONAL INFORMATION

MEDICAL USE: CAUTION - Do not use in medical applications involving permanent implantation in the human body.

This Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe this information to be correct but cannot guarantee its accuracy or completeness. Health and safety precaution in this data sheet may not be adequate for all individuals and/or situations. It is the user's responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in the data sheet shall be construed as a permission or recommendation for the use of any product in a manner that may infringe existing patents. No warranty is made, either expressed or implied.