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Tecast® T Black

ISSUE DATE: 09/16/2015

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Tecast® T Black
SYNONYMS: Not Applicable

PRODUCT COLORS: Black

MANUFACTURER: Ensinger Inc. DIVISION: Stock Shapes

ADDRESS: 365 Meadowlands Blvd., Washington, PA 15301

EMERGENCY PHONE: (724) 746-6050 OTHER CALLS: (856) 227-0500

CHEMICAL NAME: Polyamide CHEMICAL FAMILY: Nylon

PRODUCT USE: Stock Shape for Machining

PREPARED BY: Allyson M. Crouse, Technical Resource Manager

SECTION 1 NOTE: Revised September 16, 2015

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.

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.

ACUTE HEALTH HAZARDS: None Known



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CHRONIC HEALTH HAZARDS: None Known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known

CARCINOGENICITY - None Known

Caprolactam Monomer, Trade Secret

OSHA: 1 mg/m3 TWA PEL (dust)

5 ppm TWA PEL (vapor)

ACGIH: 1 mg/m3 TWA (dust)

5 ppm TWA (vapor)

Particulates

OSHA: Particulates not otherwise regulated/OSHA (PEL) 15 mg/m³ (TWA, Total Dust)

Particulates not otherwise regulated/OSHA (PEL) 5 mg/m³ (TWA, Respirable Dust)

ACGIH: Particulates not otherwise regulated/ACGHI (TLV) 10 mg/m³ (TWA, Total Dust)

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

CAS NO.	<u>% WT</u>
Caprolactam Monomer, Trade Secret	>90
Caprolactam sodium salt, Trade Secret	<2.0
Homopolymer of HDI, Trade Secret	<0.5
Solvent Black 7, Trade Secret	<0.2

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

This product consists primarily of high molecular weight polymers, which are not expected to be hazardous.

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.



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SKIN: Wash off in flowing water or shower.

INGESTION: No adverse effects anticipated by this route of exposure incidental to proper industrial

handling. If ingested, induce vomiting; if patient is conscious. 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

FLASH POINT: Not Applicable

EXTINGUISHING MEDIA: Carbon dioxide, water spray, dry chemical, alcohol resistant foam

SPECIAL FIRE FIGHTING PROCEDURES: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None Known

HAZARDOUS DECOMPOSITION PRODUCTS: May release ammonia, cyanides, oxides of nitrogen, and

oxides of carbon.

SECTION 5 NOTES: Wear full protective suit. In case of combustion, use a suitable breathing

apparatus.

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: Keep away from strong oxidizing compounds. Store in a well-ventilated place. Provide ventilation and wear necessary protectors.



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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 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 OR EQUIPMENT: None Known

EXPOSURE GUIDELINES:

Caprolactam Monomer, Trade Secret

OSHA: None Established

ACGIH: The threshold limit value (TLV) is 5 mg/m³ (Inhalation: Vapors)

NIOSH: Dust: 1 mg/m³ REL

Vapor: 1 mg/m³ REL STEL Dust: 3 mg/m³ REL STEL Vapor: 3 mg/m³ REL

Particulates

OSHA: Particulates not otherwise regulated/OSHA (PEL) 15 mg/m³ (TWA, Total Dust)

Particulates not otherwise regulated/OSHA (PEL) 5 mg/m³ (TWA, Respirable Dust)

ACGIH: Particulates not otherwise regulated/ACGHI (TLV) 10 mg/m3 (TWA, Total Dust)

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Semi-finished stock shape

ODOR: Not Applicable



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PHYSICAL STATE: Solid

MELTING POINT: 220°C (428 °F)

SPECIFIC GRAVITY (H2O = 1): 1.15 g/cm³

SOLUBILITY IN WATER: Insoluble

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID (STABILITY): High temperatures >340°C (>644°F)

INCOMPATIBILITY (MATERIAL TO AVOID): Incompatible with strong acids, strong bases and strong

oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May release ammonia, cyanides, oxides of

nitrogen, and oxides of carbon.

HAZARDOUS POLYMERIZATION: Not Applicable

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No data — In solid state, this material is not considered as being harmful to human health.

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.

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14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION Not regulated

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients are either exempt or listed on the TSCA Chemical Substance Inventory

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.

California Prop. 65: None Known

PA Right to Know: The following components are listed: Caprolactam: generic environmental hazard, Polyethylene Glycol, Homopolymer of HDI

NJ Right to Know: The following components are listed: Caprolactam, Polyethylene Glycol, Homopolymer of HDI

MA Right to Know: The following components are listed: Caprolactam

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.