

# Safety Data Sheet



## ***Tecason P (Colors)***

ISSUE DATE: 02/26/2016

### ***1. PRODUCT AND COMPANY IDENTIFICATION***

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PRODUCT NAME: Tecason P (PPSU Colors)  
SYNONYMS: Not Applicable  
PRODUCT COLORS: NT Natural and BK937 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: Polyphenylsulfone (PPSU)  
CHEMICAL FAMILY: Polyphenylsulfone (PPSU)  
CHEMICAL FORMULA: basic formula  $(-C_6H_4-4-SO_2C_6H_4-4-OC_6H_4-4-C_6H_4-4-O-)_n$   
  
PRODUCT USE: Stock Shape for Machining  
PREPARED BY: Allyson M. Huhn, Regulatory & Compliance Manager  
  
SECTION 1 NOTE: Revised February 26, 2016

### ***2. HAZARDS IDENTIFICATION***

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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

CHRONIC HEALTH HAZARDS: None Known

# Safety Data Sheet



## ***Tecason P (Colors)***

ISSUE DATE: 02/26/2016

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known

CARCINOGENICITY: None Known

### ***3. COMPOSITION/INFORMATION ON INGREDIENTS***

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#### INGREDIENT:

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Polyphenylsulfone	25608-64-4	>88
Carbon Black	1333-86-4	<1
Titanium oxide	13463-67-7	<5
Additives & Colorants	N/A	<10

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***

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**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. 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***

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**FLASH POINT:** Not Applicable

**EXTINGUISHING MEDIA:** Powder, foam, water, water spray and carbon dioxide

**SPECIAL FIRE FIGHTING PROCEDURES:** May produce toxic fume of carbon oxides, if burning.

# Safety Data Sheet



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UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible material. In a fire, the polymer melts producing droplets which may propagate fire. Heating can release hazardous gases.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide

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

## ***6. ACCIDENTAL RELEASE MEASURES***

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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***

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

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***

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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

Special Precautions to be taken in Handling and Storage: Store in sealed containers. Protect from atmospheric moisture. Typical processing temperatures range from 320F – 470F. Molten material can

# Safety Data Sheet



## ***Tecason P (Colors)***

ISSUE DATE: 02/26/2016

produce thermal burns. Avoid skin contact. Fumes released during normal processing may cause irritation. Provide adequate ventilation. Heating the resin above normal processing temperatures may cause hazardous decomposition products. Do not overheat. Handling and fabrication of plastic resins can result in the generation of dust. Dust results from sawing, filing, and sanding of plastic parts in post-molding operations. Quantities of dust in air may be combustible and may cause respiratory irritation.

### EXPOSURE GUIDELINES:

Particulates not otherwise regulated:

OSHA: Particulates not otherwise regulated/OSHA (PEL) 15 mg/m<sup>3</sup> (TWA, Total Dust)

Particulates not otherwise regulated/OSHA (PEL) 5 mg/m<sup>3</sup> (TWA, Respirable Dust)

ACGIH: Particulates not otherwise regulated/ACGIH (TLV) 10 mg/m<sup>3</sup> (TWA, Total Dust)

Carbon Black, CAS: 1333-86-4

OSHA: (PEL, 8HR) 3.5 mg/m<sup>3</sup> (FRL\_TWA)

OSHA: (PEL, 8HR) 3.5 mg/m<sup>3</sup> (TL\_PEL)

ACGIH: TWA: 3.5 mg/m<sup>3</sup> (Inhalable Fraction); Notations: Not Classifiable as a Human Carcinogen

Titanium oxide (TiO<sub>2</sub>), 13463-67-7

OSHA: 15 mg/m<sup>3</sup> (TWA, Total Dust)

ACGIH: 10 mg/m<sup>3</sup> (TWA, Total Dust)

### **NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)**

Titanium oxide (TiO <sub>2</sub> )	13463-67-7	5000 milligram per cubic meter
Carbon Black	1333-86-4	1750 milligram per cubic meter

## ***9. PHYSICAL AND CHEMICAL PROPERTIES***

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APPEARANCE: Opaque color stock shape

ODOR: Not Applicable

PHYSICAL STATE: Solid

SOFTENING POINT: 428°F (220°C)

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): Not Measured

SOLUBILITY IN WATER: Not soluble to water.

VOLATILE ORGANIC COMPOUNDS (VOC): Not Applicable

# Safety Data Sheet



## ***Tecason P (Colors)***

ISSUE DATE: 02/26/2016

### ***10. STABILITY AND REACTIVITY***

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STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: High temperatures, heat, flames and sparks; to avoid thermal decomposition, do not overheat; avoid dust formation.

The normal temperature for processing this resin exceeds the decomposition and/or ignition temperature of some other polymeric resins, such as polyacetal, polyvinyl chloride (PVC), polypropylene, etc. If PVC or any other resin with a decomposition temperature below 371°C / 700°F is molded or handled in your equipment, these materials can rapidly decompose and/or react with this resin at the temperatures used to process this resin. Inadvertent contamination of this resin with these materials from the material handling system or other equipment can result in a rapid, possibly violent release of decomposition fumes, when the contaminated material is brought to processing temperature. To avoid, thoroughly clean molding and other processing equipment prior to changeover and prevent cross contamination of material handling systems.

INCOMPATIBILITY (MATERIAL TO AVOID): Polymeric resins

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, sulfur oxides, hydrocarbons. The release of other hazardous decomposition products is possible.

HAZARDOUS POLYMERIZATION: Not Applicable

### ***11. TOXICOLOGICAL INFORMATION***

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

#### Carcinogenicity

Titanium Dioxide: CAS 13463-67-7

IARC	Group 2B: Possibly carcinogenic to human (Titanium dioxide).
ACGIH	A4: Not classifiable for human or animal (Titanium dioxide).
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Carbon Black: CAS 1333-86-4

IARC	Group 2B: Possibly carcinogenic to human.
ACGIH	A4: Not classifiable for human or animal.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

# Safety Data Sheet

## ***Tecason P (Colors)***



ISSUE DATE: 02/26/2016

### ***12. ECOLOGICAL INFORMATION***

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

### ***13. DISPOSAL CONSIDERATIONS***

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

### ***14. TRANSPORT INFORMATION***

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U.S. DEPARTMENT OF TRANSPORTATION  
Not regulated

### ***15. REGULATORY INFORMATION***

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#### **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 PROPOSITION 65:**

WARNING! This product contains a chemical known in the State of California to cause cancer.

Ingredients	CAS-No.
Titanium oxide (TiO <sub>2</sub> )	13463-67-7
Carbon Black	1333-86-4

### ***16. OTHER INFORMATION***

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#### **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.*

# Safety Data Sheet



## ***Tecason P (Colors)***

ISSUE DATE: 02/26/2016

*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.*

