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# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

# 1. Identification

Product identifier: INFINAM® TPC 8008 P

Other means of identification

None.

**Recommended restrictions** 

Recommended use: Powder for 3D printing Additive Thermoplastic Elastomers (TPE)

Restrictions on use: Not determined.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation

2 Turner Place

Piscataway, NJ 08854

USA

Telephone : +1 732 981 5000

E-mail : product-regulatory-services@evonik.com

**Emergency telephone number:** 

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

**Hazard Classification** 

**Physical Hazards** 

Combustible dust Category 1

**Label Elements** 

Hazard Symbol: No symbol

Signal Word: Warning

**Hazard Statement:** 

May form combustible dust concentrations in air.

Precautionary Statements

**Prevention:** Use with adequate ventilation. Avoid generation or accumulation of dust.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.



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Hazard(s) not otherwise classified (HNOC):

None.

### 3. Composition/information on ingredients

**Mixtures** 

Composition Comments: The components are not hazardous or are below required

disclosure limits. Chemical family Polymer

# 4. First-aid measures

Description of necessary first-aid measures

General information: Move out of dangerous area. Do not leave the victim unattended.

**Inhalation:** In case of symptoms of irritation caused by vapours in thermal

processing: Provide fresh air, seek medical advice if necessary. Following inhalation of product dust: See that there is fresh air.

**Skin Contact:** Wash off affected area immediately with plenty of water. Get

medical attention if any discomfort continues.

**Eye contact:** Rinse eyes thoroughly with plenty of water keeping eyelid

open.Obtain medical attention.

**Ingestion:** Flush mouth immediately, then drink plenty of water, avoid

vomiting, consult physician

**Personal Protection for First-aid** 

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: No experiences of acute or chronic damages in humans have

been made as yet.

**Hazards:** Risk of skin burns caused by hot melt.

Indication of immediate medical attention and special treatment needed

**Treatment:** Continue with first aid measures. Depending on the pathology

and clinical findings, patient monitoring and symptomatic

treatment are necessary.

# 5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media: High volume water jet.



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Special hazards arising from the

substance or mixture:

May be released in case of fire: carbon monoxide, carbon dioxide, nitric oxides, organic products of decomposition. Under certain conditions of combustion traces of other toxic

substances cannot be excluded

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-

fighters:

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or

equivalent) and full protective gear.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin and eves. Assure sufficient ventilation. Avoid dust formation. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. In case product dust is released: Dust

mask

Accidental release measures: Dust Deposits should not be allowed to accumulate on

> surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). If dust is present, control smoking, open flames, sparks, static electricity and friction heat.

Methods and material for containment and cleaning up: Use mechanical handling equipment. Avoid dust formation. Dust may form explosive mixture with air. Avoid dispersion of dust. Remove sources of ignition. Use non-sparking tools. Use cleaning techniques that do not generate dust clouds if ignition sources are present. Use only vacuum cleaners

approved for combustible dust collection.

**Environmental Precautions:** Obey relevant local, state, provincial and federal laws and

regulations. Do not contaminate any lakes, streams, rivers,

groundwater or soil.

## 7. Handling and storage

## Handling

Technical measures (e.g. Local and general ventilation):

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accordance with accepted engineering practices in any process capable of generating dust and/or static electricity.

Safe handling advice:

Use dust collection systems and filters. Minimize the

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escape of dust from process equipment and ventilation systems. Utilize surfaces that minimize dust accumulation and facilitate cleaning. Dust accumulations should be avoided to prevent secondary dust explosions. Avoid dust formation. Provide for appropriate exhaust ventilation and dust collection at machinery. In case of thermal processing, provide for extraction of the vapours or adequate ventilation. In thermal processing: Risk of skin burns

Contact avoidance measures: No data available.

**Storage** 

Safe storage conditions: Store cool and dry in the closed original packaging. Minimize

dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges

when subjected to the friction of transfer and mixing

operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Prevent the generation of dust clouds, since dusts can form explosive mixtures with air. If dust forms, remove all sources of

ignition and static discharge.

Safe packaging materials: No data available.

# 8. Exposure controls/personal protection

### **Control Parameters**

#### **Occupational Exposure Limits**

None of the components have assigned exposure limits.

#### **Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

#### **Appropriate Engineering Controls**

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accordance with accepted engineering practices in any process capable of generating dust and/or static electricity.

Individual protection measures, such as personal protective equipment

**Eye/face protection:** Safety glasses with side shields

Skin Protection



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Hand Protection: Additional Information: The wearing of protective gloves is

not required if the powder in question is handled at room temperature. Additional Information: Protective heatinsulating gloves are to be used during thermal processing.

**Skin and Body Protection:** Safety showers and eye showers should be easily

accessible. Long sleeved clothing Long sleeved clothing

**Respiratory Protection:** Put on dust mask equipped with P1 particle filter if the

occupational threshold limit value has been exceeded. Note time limit for wearing respiratory protective equipment. A respiratory protection program that meets OSHA 1910.134

and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability

of various types of respirators.

**Hygiene measures:** Do not wear contaminated clothing. Wash hands before

breaks and at the end of workday. Smoking, eating and drinking should be prohibited in the application area.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: solid
Form: Powder
Color: White
Odor: Odorless

Odor Threshold: Not determined., Not required by safety or application

considerations.

Melting Point: $356 \, ^{\circ}\text{F}/180 \, ^{\circ}\text{C} \, (DSC)$ Boiling Point: $> 95 \, ^{\circ}\text{F}/> 35 \, ^{\circ}\text{C}$ 

Flammability: Not classified as a flammability hazard

Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** see Explosiveness **Explosive limit - lower:** see Explosiveness

Flash Point: (estimated) does not flash

**Autoignition Temperature:** The substance or mixture is not classified as self heating.

The substance or mixture is not classified as pyrophoric.

**Decomposition Temperature:** > 572 °F/> 300 °C **pH:** Not applicable

Viscosity

**Dynamic viscosity:** No data available. Not required by safety or application

considerations.

Kinematic viscosity:  $> 20.5 \text{ mm2/s} (104 \degree \text{F/40} \degree \text{C})$ 

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Insoluble in water

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**Solubility (other):** No data available.

Partition coefficient (n- No data available. Not required by safety or application

octanol/water):considerations.Vapor pressure:Not applicable

**Relative density:** 1.0 - 1.2 (68 °F/20 °C)

Density: 1.23 g/cm3
Bulk density: 450 g/l
Vapor density (air=1): Not applicable

**Particle characteristics** 

Particle Size:  $\leq 500 \mu m$ 

Particle Size Distribution:
Specific surface area:
Surface charge/Zeta potential:
No data available.
No data available.
No data available.
Crystallinity:
No data available
No data available
No data available

Other information

**Explosive properties:** Not explosive Dust may form explosive mixture with air. **Oxidizing properties:** The substance or mixture is not classified as oxidizing.

Minimum ignition temperature: > 662 °F/> 350 °C

Formation of Flammable Gases: Substance or mixture, which in contact with water, does not

emit flammable gas

**Peroxides:** The substance or mixture is not classified as organic

peroxide.

Metal Corrosion: Not corrosive to metals

Evaporation Rate: Not applicable

#### 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical Stability:** Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Keep away from heat and sources of ignition. Take

precautionary measures against static discharges.

Decomposition at elevated temperatures.

**Incompatible Materials:** Oxidizing agents. Strong acids.

**Hazardous Decomposition**Carbon Dioxide. Carbon Monoxide.

**Products:** 

### 11. Toxicological information

#### Information on toxicological effects

#### Information on likely routes of exposure

**Inhalation:** Information on effects are given below.

**Skin Contact:** Information on effects are given below.

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**Eye contact:** Information on effects are given below.

**Ingestion:** Information on effects are given below.

#### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Not classified for acute toxicity based on available data.

**Dermal** 

**Product:** Not classified for acute toxicity based on available data.

Inhalation

**Product:** Not classified for acute toxicity based on available data.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.

## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

#### **Germ Cell Mutagenicity**

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** No data available.

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#### Information on health hazards

Other hazards

**Product:** No toxicological tests have been conducted with the product

itself.;

# 12. Ecological information

# **Ecotoxicity:**

Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Toxicity to microorganisms

**Product:** No data available.

**Chronic hazards to the aquatic environment:** 

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Toxicity to microorganisms

**Product:** No data available.

Persistence and Degradability

**Biodegradation** 

**Product:** No data available.

**BOD/COD** Ratio

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: No data available. Not required by safety or application

considerations.

Mobility in soil:

**Product** No data available.



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#### Results of PBT and vPvB assessment:

**Product** No data available.

Other adverse effects:

Other hazards

**Product:** No ecotoxicological studies are available.

#### 13. Disposal considerations

**Disposal methods:** Waste must be disposed of in accordance with federal, state, provincial

and local regulations.

Contaminated Packaging: Packaging material should be recycled or disposed of in accordance

with federal, state and local regulations.

## 14. Transport information

#### **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

## International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

## **IMDG-Code**

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## 15. Regulatory information

#### **US Federal Regulations**

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

# US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

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Not classified

## US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

## US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

## **US State Regulations**

#### **US.** California Proposition 65

No ingredient requiring a warning under CA Prop 65.

#### **Inventory Status:**

Australia Industrial Chem. Act (AIIC):	On or in compliance with the inventory	
Canada DSL Inventory List:	On or in compliance with the inventory	
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	
Japan (ENCS) List:	On or in compliance with the inventory	
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	
Philippines PICCS:	Not in compliance with the inventory.	
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Pre-registration is requested for specific importer.
US TSCA Inventory:	On or in compliance with the inventory	Commercial Status: Active
Switzerland New Subs Notified/Registered:	On or in compliance with the inventory	
EINECS, ELINCS or NLP:	On or in compliance with the inventory	EU-REACH compliant for Evonik Operations GmbH and its affiliates as EU manufacturer/EU importer.

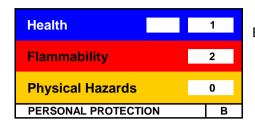
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## 16.Other information, including date of preparation or last revision

#### **HMIS Hazard ID**



B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**Issue Date:** 11/05/2019

Version #: 1.1

Further Information: No data available.

**Revision Information** Changes since the last version are highlighted in the margin. This version

replaces all previous versions.

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