

## SAFETY DATA SHEET

### 1. Identification

<b>Product Name</b>	Trifluoropropyl Methacrylate POSS®
<b>Product Number</b>	Heterocage HC0507.XY (X= 1-7, Y = 7-1)
<b>Synonyms</b>	NA
<b>CAS Number</b>	NA
<b>Product Use</b>	Resin additive
<b>Manufacturer</b>	Hybrid Plastics, Inc. 55 Runnels Dr. Hattiesburg, MS 39401 US
<b>Telephone</b>	+1.601.544.3466
<b>Fax</b>	+1.601.545.3103
<b>Emergency Telephone</b>	+1.800.424.9300 Chemtrec (Ref: CCN623733)

### 2. Hazards Identification

#### GHS Classification

##### Physical hazards

None

##### Health hazards

Acute toxicity, oral	Classification not possible
Acute toxicity, dermal	Classification not possible
Acute toxicity, inhalation	Classification not possible
Skin corrosion/irritation	Classification not possible
Serious eye damage/irritation	Classification not possible
Sensitization, respiratory	Classification not possible
Sensitization, skin	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible

Reproductive toxicity	Classification not possible
Specific target organ toxicity, single exposure	Classification not possible
Specific target organ toxicity, repeated exposure	Classification not possible
Aspiration hazard	Classification not possible

**Environmental hazards**

Hazardous to the aquatic environment, acute hazard	Classification not possible
Hazardous to the aquatic environment, long-term hazard	Classification not possible
Hazardous to the ozone layer	Classification not possible

**GHS Label Elements**

None

**Signal Word**

None

**Hazard Statement(s)**

None

NFPA rating: Health: 0 Flammability: 0 Reactivity: 1

HMIS rating: Health: 0 Flammability: 0 Physical Hazard: 1

**3. Composition/Information on Ingredients**

Chemical Identity	CAS#	EC#	Concentration
Methacryl trifluoropropyl silsesquioxane	NA	NA	100 wt%

**Molecular/Chemical Formula:**  $(C_7H_{17}O_2)_x (C_3H_4F_3)_{z-x} (SiO_{1.5})_z$  z=8, 10, 12**Molecular Weight:** 1200 - 7000**4. First Aid Measures****Inhalation**

Remove to fresh air. If breathing becomes difficult, seek immediate medical attention.

**Skin Contact**

Wash off with soap and water.

**Eye Contact**

Flush eyes with plenty of water.

**Ingestion**

If swallowed, do not induce vomiting. Wash out mouth with water if person is conscious.

## 5. Fire Fighting Measures

### **Suitable extinguishing media**

Use water spray, carbon dioxide, dry chemical powder or appropriate foam.

### **Special protective equipment and precaution for fire fighters**

Fire fighters exposed to vapors should wear a self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

### **Unusual Fire and Explosion Hazards**

None

### **Combustion Products**

Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon and silicon.

## 6. Accidental Release Measures

### **Personal precautions**

Exercise appropriate precautions to minimize direct contact with skin or eyes.

### **Environmental precautions**

Do not let product enter drains.

### **Methods for cleaning up**

Use suitable absorbent, sweep up, place in bag and hold for disposal. Ventilate area and wash spill site after material pick up is complete.

## 7. Handling and Storage

### **Handling precaution**

Handle in a fume hood or in properly ventilated area. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### **Storage precaution**

Store in a cool, dry place in tightly closed containers.

## 8. Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values.

### **Respiratory protection**

Avoid breathing vapors. Use a respirator and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Hand protection**

Wear protective gloves. Wash thoroughly after handling.

### **Eye protection**

Wear chemical safety goggles or a face shield

**Skin and body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Use common industrial hygiene practices.

<b>9. Physical and Chemical Properties</b>
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Appearance	Clear, viscous fluid
Odor	Acrylate-like
Odor threshold	No data available
pH	No data available
Melting/freezing point	No data available
Initial boiling point and range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

<b>10. Stability and Reactivity</b>
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**Chemical stability**

Stable under recommended storage conditions

**Conditions/materials to avoid**

Exposure to strong bases

**Hazardous decomposition products**

Carbon dioxide, Carbon monoxide, Silicon Oxides

<b>11. Toxicological Information</b>
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**Acute toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity – single exposure**

No data available

**Specific target organ toxicity – repeated exposure**

No data available

**Aspiration hazard**

No data available

**Potential health effects****Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion**

May be harmful if swallowed.

**Skin**

May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**

May cause eye irritation.

**Additional Information**

To the best of our knowledge the toxicological properties have not been thoroughly investigated.

**12. Ecological Information****Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

### 13. Disposal Considerations

**Product**

Contact a licensed waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

### 14. Transport Information

**Classification for road and rail transport (ADR/RID)**

Not dangerous goods

**Classification for sea transport (IMO-IMDG)**

Not dangerous goods

**Classification for air transport (IATA/ICAO)**

Not dangerous goods

### 15. Regulatory Information

**U.S. Federal Regulations:  
TSCA:**

This product is not currently regulated by SARA/EPCRA  
No. R&D Use Only

### 16. Other Information

**Date prepared:** 02.07.2023

**Reviewed by:** Director of Commercial Products

The information and recommendations contained in this Safety Data Sheet are from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. While the above information is believed to be accurate, no warranty, guaranty, or representation is made as to the correctness or sufficiency of the information and the information is intended only as a guide. Hybrid Plastics shall not be held liable for any damage resulting from handling or from contact with this product. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine environmental regulatory compliance obligations under any applicable laws.