Hybrid Plastics®
Superior Technology for Superior Products

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SAFETY DATA SHEET

1. Identification

Product Name	**Methacryl-trifluoropropyl-ioctyl-PEG POSS® Heterocage**
Product Number	**HC07051013.WXYZ (W=1-7, X= 1-7, Y = 7-1, Z=1-7)**
Synonyms	NA
CAS Number	NA
Product Use	Resin additive
Manufacturer	Hybrid Plastics, Inc. 55 Runnels Dr. Hattiesburg, MS 39401 US
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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-trifluorpropyl-ioctyl-PEG silsesquioxane	NA	NA	100 wt%

Molecular/Chemical Formula: $(C_7H_{11}O_2)_x(C_3H_4F_3)_y(C_8H_{17})_w[C_{2m+3}H_{4m+7}O_{m+1}]_{z-x}(SiO_{1.5})_z$ z=8, 10, 12, m=~10

Molecular Weight: 1300 - 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.

9. Physical and Chemical Properties

Appearance	Yellow, low-viscosity 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	300-400 mPa s @ 25°C

10. Stability and Reactivity

Chemical stability

Stable under recommended storage conditions

Conditions/materials to avoid

Exposure to strong bases

Hazardous decomposition products

Carbon dioxide, Carbon monoxide, Silicon Oxides

11. Toxicological Information

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

16. Other Information

Date prepared: 06.18.2020
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.