

SAFETY DATA SHEET

1. Identification

Product Name	EpoxyCyclohexylethyl iso-Octyl POSS® Heterocage
Product Number	HC0310.XY (X = 1-7, Y = 7-1)
Synonyms	NA
CAS Number	NA
Product Use	Resin, 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
EpoxyCyclohexylethyl i-octyl, silsesquioxane	NA	NA	100 wt%

Molecular/Chemical Formula: $[(C_8H_{13}OSiO_{1.5})_x(C_8H_{17}SiO_{1.5})_y]_z$ z=8, 10, 12**Molecular Weight:** 1000 – 2500**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	Clear, Colorless, liquid
Odor	No appreciable odor
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	200 – 300 Pa s @ 25°C

10. Stability and Reactivity

Chemical stability

Stable under recommended storage conditions

Incompatible materials

Strong oxidizing agents, strong bases

Conditions/materials to avoid

Exposure to strong bases, heat, flames and sparks

Hazardous decomposition products

Irritating or toxic substances may be emitted upon thermal decomposition, Thermal decomposition product may include 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 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:**

This product is not currently regulated by SARA/EPCRA

TSCA:

No. R&D Use Only

16. Other Information**Date prepared:** 11.08.2023**Reviewed by:** Director of Commercial Products

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