

SAFETY DATA SHEET

1. Identification

| | |
|----------------------------|---|
| Product Name | EpoxyCyclohexylethyl iso-Butyl POSS® |
| Product Number | Heterocage HC0309.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 |
| Telephone | +1.601.544.3466 |
| Fax | +1.601.545.3103 |
| Emergency Telephone | US & Canada: 1.800.255.392 International: +01.813.248.0585 |

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-butyl, silsesquioxane | NA | NA | 100 wt% |

Molecular/Chemical Formula: $[(C_8H_{13}OSiO_{1.5})_x(C_4H_{13}SiO_{1.5})_y]_z$ 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, Viscous 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 | No data available |

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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