



55 W.L. Runnels Industrial Drive; Hattiesburg, MS 39401

## SAFETY DATA SHEET

### 1. Identification

<b>Product Name</b>	Epoxycyclohexyl POSS® Cage Mixture Solution
<b>Product Number</b>	EP0408.04.30
<b>Synonyms</b>	NA
<b>CAS Number</b>	NA
<b>Product Use</b>	Various
<b>Manufacturer</b>	Hybrid Plastics, Inc. 55 Runnels Dr Hattiesburg, MS 39401 US
<b>Telephone</b>	+1.601.544.3466
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<b>Email</b>	<a href="mailto:info@hybridplastics.com">info@hybridplastics.com</a>
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### 2. Hazards Identification

#### GHS Classification

Skin sensitization (Category 1), H317  
Short-term (acute) aquatic hazard (Category 3), H402  
Long-term (chronic) aquatic hazard (Category 3), H412

#### 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	Category 1
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	Category 3
Hazardous to the aquatic environment, long-term hazard	Category 3
Hazardous to the ozone layer	Classification not possible

### GHS Label Elements



### Signal Word

Warning

### Hazard Statement(s)

- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

### Precautionary Statement(s)

- P261: Avoid breathing mist or vapors.
- P272: Contaminated work clothing must not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P363: Wash contaminated clothing before reuse.
- P501: Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/Information on Ingredients

Chemical Identity	CAS#	EC#	Conc.
Epoxycyclohexyl Silsesquioxanes	329360-71-6	NA	65-75%
3,4-Epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate	2386-87-0	NA	25-35%

### 4. First Aid Measures

#### Inhalation

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

#### Skin Contact

Take all contaminated clothing off immediately. Rinse with water/shower. Consult a physician.

#### Eye Contact

Flush eyes with plenty of water. Remove contact lenses.

#### Ingestion

Wash out mouth with water if person is conscious. Consult a physician.

### 5. Fire Fighting Measures

#### Suitable extinguishing media

Use water spray, carbon dioxide, dry chemical powder or alcohol-resistant 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

Flammable liquid and vapor.

#### Combustion Products

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

### 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

Ambient temperatures in tightly closed containers.

## 8. Exposure Controls/Personal Protection

### Respiratory protection

Where respiratory protection is desired, use respirators 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 & amount of dangerous substances, & to the specific workplace. The type of protective equipment must be selected according to the concentration & amount of the dangerous substance at the specific workplace.

### Hygiene measures

Use common industrial hygiene practices.

## 9. Physical and Chemical Properties

Appearance	Clear to hazy liquid
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting/freezing point	No data available
Initial boiling point and range	> 170 °C (> 338 °F)
Flash point	118 °C (244 °F) Closed Cup
Evaporation rate	No data available
Flammability	Not flammable
Upper/lower flammability explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.2
Solubility(ies)	Water < 1g/l @ 20 °C (68 °F)
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

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapors may form explosive mixture with air.

### Conditions to avoid

Sparks, heat, flames

### Incompatible Materials

Strong oxidizing agents, strong bases, strong reducing agents

### 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

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

### 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

**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 unused product.

**14. Transport Information****Classification for road and rail transport (ADR/RID)**

Not regulated

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

Not regulated

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

Not regulated

## 15. Regulatory Information

<b>U.S. Federal Regulations:</b>	This product is not currently regulated by SARA/EPCRA
<b>TSCA:</b>	Low Volume Exemption use only (L-17-0084)
<b>REACH:</b>	Not registered

## 16. Other Information

**Date prepared:** 01.08.2025

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