

# Hybrid Plastics®

Superior Technology for Superior Products

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## SAFETY DATA SHEET

### 1. Identification of the Substance/Preparation and the Company Undertaking

<b>Product Name</b>	Epoxy cyclohexyl isobutyl POSS®
<b>Product Number</b>	EP0402
<b>Synonyms</b>	1-[2-(3,4-Epoxy cyclohexyl)ethyl]-3,5,7,9,11,13,15 isobutylpentacyclo[9.5.1.1 <sup>3,9</sup> .1 <sup>5,15</sup> .1 <sup>7,13</sup> ]octasiloxane
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### 2. Hazard Identification

#### GHS Classification

#### Physical hazards

None

#### Health hazards

Acute toxicity, oral	Not toxic
Acute toxicity, dermal	Classification not possible
Acute toxicity, inhalation	Classification not possible
Skin corrosion/irritation	Not a primary dermal irritant
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

**Precautionary Statement(s)**

None

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

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

**3. Composition/Information on Ingredients**

Ingredient	CAS#	EC#	Conc
1-[2-(3,4-Epoxy cyclohexyl)ethyl]-3,5,7,9,11,13,15-isobutylpentacyclo[9.5.1.1 <sup>3,9</sup> .1 <sup>5,15</sup> .1 <sup>7,13</sup> ]octasiloxane	445379-56-6	NA	100%

Formula                      C<sub>36</sub>H<sub>76</sub>O<sub>13</sub>Si<sub>8</sub>

Molecular Weight            941.66 gm/mol

**4. First Aid Measures****If inhaled**

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

**In case of skin contact**

Wash off with soap and water.

**In case of eye contact**

Flush eyes with plenty of water.

**If swallowed**

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 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.

**6. Accidental Release Measures****Personal precautions**

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

**Environmental precautions**

Do not let product enter drains

**Methods for cleaning up**

Sweep up, place in bag and hold for disposal. Avoid raising dust. 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 protection from nuisance levels of dusts are desired, uses type N95 (US) or type P1 (EN143) dust masks. 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 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	White powder
Odor	None
Odor threshold	Not applicable
pH	Not applicable
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	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	Tetrahydrofuran (s), Water (ns)
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable

## 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**

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 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

<b>U.S. Federal Regulations</b>	This product is not currently regulated by SARA/EPCRA
<b>TSCA (US)</b>	Not listed
<b>TSCI (TW)</b>	Not listed
<b>REACH (EU)</b>	Not registered

### 16. Other Information

**Date prepared:** 02.05.2018

**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.