

# Hybrid Plastics®

Superior Technology for Superior Products

55 WL Runnels Industrial Drive  
Hattiesburg, Mississippi 39401, USA

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## SAFETY DATA SHEET

### 1. Identification

<b>Product Name</b>	Vinyl isooctyl POSS® Cage Mixture
<b>Product Number</b>	HC1110.XY (X = 1-9, Y = 1-9)
<b>Synonyms</b>	NA
<b>CAS Number</b>	2984538-14-7
<b>Product Use</b>	Resin additive
<b>Manufacturer</b>	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
Vinyl isooctyl silsesquioxane	2984538-14-7	NA	100 wt%

**Molecular/Chemical Formula:**  $[(C_2H_3SiO_{1.5})_x(C_8H_{17}SiO_{1.5})_y]_z$  z=8, 10, 12, x = 1-9, y = 1-9**Molecular Weight:** 700 - 2000**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 viscous liquid
Odor	Trace olefin-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	No data available

**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 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**

<b>U.S. Federal Regulations:</b>	This product is not currently regulated by SARA/EPCRA
<b>TSCA:</b>	No. R&D Use Only

**16. Other Information**

**Date prepared:** 08.09.2022

**Reviewed by:** Director of Commercial Products

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