



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

SAFETY DATA SHEET

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

Product Name	Isooctyl POSS® Cage Mixture	
Product Number	MS0805	
Synonyms	NA	
Company	Hybrid Plastics, Inc. 55 Runnels Dr Hattiesburg, MS 39401 US	
Telephone	+1.601.544.3466	
Fax	+1.601.545.3103	
Email	info@hybridplastics.com	
Emergency Telephone	US & Canada	+1.800.255.3924
	Outside US & Canada	+01.813.248.0585

2. Hazard Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA Hazcom 2012)

Not Classified

GHS Label Elements

According to the corresponding national regulations there is no labeling obligation for this product.

Hazards not otherwise classified (HNOC)

May be slightly irritating to the eyes, respiratory system and skin

3. Composition/Information on Ingredients

Ingredient	CAS#	Composition
Silsesquioxanes, 2,4,4-trimethylpentyl, hydroxy-terminated	217654-68-7	99.2%
Cyclohexane	110-82-7	0.8%

Formula (C₈H₁₇SiO_{1.5})_n n=8, 10, 12
Mn 1360
Mw 1390

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.

Environmental precautions

Do not let product enter drains

Methods for cleaning up

Use a suitable absorbent. Sweep up, place in a 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

Contains no substances with occupational exposure limit values.

Respiratory protection

Respiratory protection is not required. 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 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	Translucent, viscous liquid
Odor	None
Odor threshold	No data available
pH	No data available
Melting/freezing point	No data available
Initial boiling point and range	>200 °C (392 °F)
Flash point	>109 °C (228 °F)
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	1.01

Solubility(ies)	Tetrahydrofuran, acetone
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature	No data available
Decomposition temperature	>300 °C (572 °F)
Viscosity @ 20 °C	13 Pa s @ 1 - 100 s ⁻¹

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

Oral (rat) LD₅₀ > 5 g/kg

Skin corrosion/irritation

Not a primary skin irritant (PII: 0.78)

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**U.S. Federal Regulations**

This product is not currently regulated by SARA/EPCRA

TSCA
REACH (EU)

Listed on inventory
Not registered

16. Other Information

Date reviewed: 06.06.2023

Reviewed by : Director of Commercial Products

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