

Hybrid Plastics®

Superior Technology for Superior Products

55 WL Runnels Industrial Drive
Hattiesburg, Mississippi 39401, USA

Product Data Information: 601 544 3466
Fax: 601 545 3103
hybridplastics.com

SAFETY DATA SHEET

1. Identification

Product Name	TriSilanolIsooctyl POSS®
Product Number	SO1455
Synonyms	IsooctylTrisilanol POSS®
CAS Number	444619-08-3
Product Use	US: Various Outside US: Research Purposes Only
Manufacturer	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 International: +01.813.248.0585

2. Hazards Identification

GHS Classification

Physical hazards

None

Health hazards

Acute toxicity, oral (rat)

Not toxic, LD₅₀ > 5 g/kg

Acute toxicity, dermal

Classification not possible

Acute toxicity, inhalation

Classification not possible

Skin corrosion/irritation (rabbit)

Not a primary dermal irritant, PII = 0.30

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

3. Composition/Information on Ingredients

Chemical Identity	CAS#	EC#	Conc.
Tricyclo[7.3.3.1 ^{5,11}]heptasiloxane-3,7,14-triol, 1,3,5,7,9,11,14-heptakis(2,4,4-trimethylpentyl) -	444619-08-3	NA	100 %

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, 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**

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	Clear to pale yellow liquid
Odor	None
Odor threshold	N/A
pH	N/A
Melting/freezing point	- 39 °C
Initial boiling point and range	N/A - Decomposition
Flash point	> 110 °C
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	1.1
Solubility(ies)	Tetrahydrofuran (s), Water (ns)
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature	No data available
Decomposition temperature	244 °C
Viscosity	20-40 Pa s @ 37 °C

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

Primary Dermal Irritation (rabbit), Primary Irritation Index (PII): 0.30, Not a primary dermal irritant

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**TSCA****REACH (EU)**

This product is not currently regulated by SARA/EPCRA

Listed on Inventory

Not registered

16. Other Information

Date prepared: 02.04.2026

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.