



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

SAFETY DATA SHEET

1. Identification

Product Name	TriSilanollsobutyl POSS®
Product Number	SO1450
Synonyms	IsobutylTrisilanol POSS®
CAS Number	307531-92-6
Product Use	Dispersant Rheological Diluent
Manufacturer	Hybrid Plastics, Inc. 55 Runnels Dr. Hattiesburg, MS 39401 US
Telephone	+1.601.544.3466
Emergency Telephone	US & Canada: 1.800.255.3924 Worldwide: +01.813.248.0585

2. Hazards Identification

Not a dangerous substance according to GHS.

3. Composition/Information on Ingredients

Chemical Identity	CAS#	EC#	Concentration	Impurities
1,3,5,7,9,11,14-Heptaisobutyltricyclo-[7.3.3.1(5,11)]heptasiloxane-endo-3,7,14-triol	307531-92-6	NA	100 %	None

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

Contains no substances with occupational exposure limit values.

Respiratory protection

Avoid breathing dust. Use a dust mask or 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

Form	Powder
Color	White
Molecular/Chemical Formula:	$C_{28}H_{66}O_{12}Si_7$
Molecular Weight:	791.42 FW
Specific Gravity	1.13
Odor	None
Vapor Density	Not Applicable
Evaporation Rate	Not Applicable
Boiling Point	Not Applicable
Melting Point	Not Applicable
Decomposition Temperature	> 250 °C
Reactivity in Water	Not Reactive
Solubility in Water	Insoluble

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

LD₅₀ > 5g/kg

Skin corrosion/irritation

Primary Irritation Index 0.00

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: Listed

REACH: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

16. Other Information

Date prepared: 10.22.2024

Reviewed by: Director of Commercial Products

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