

Hybrid Plastics®

Superior Technology for Superior Products

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MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Name: POSS® Resin SC4500
Chemical Name: Polyvinylsilsesquioxane
Chemical Family: Silsesquioxane

SECTION 2 – COMPOSITION/INGREDIENTS

Ingredient Name: Polyvinylsilsesquioxane, Silane Crosslinker
CAS Number: N/A

SECTION 3 – HEALTH AND RELATED DATA

Emergency Overview: Liquid resin, generally considered to be non-toxic.

Relevant Routes of Exposure: Ingestion, skin or eye contact.

Eye Contact: Prolonged exposure or repeated contact could cause irritation.

Skin Contact: Prolonged exposure or repeated contact could cause irritation.

Inhalation: N/A.

Ingestion: May cause irritation to mouth, throat, esophagus, and stomach.

HMIS Rating:

Health: 1 Flammability: 0 Reactivity: 0

NFPA Rating:

Health: 1 Flammability: 0 Reactivity: 0

SECTION 4 – FIRST AID PROCEDURES

Eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 min. Assure adequate flushing by separating the eyelids with fingers. Seek immediate medical attention.

Skin: In case of contact, immediately wash skin with soap and copious amounts of water. Seek immediate medical attention if exposure is severe.

Inhalation: N/A.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Seek immediate medical attention.

SECTION 5 – FIRE AND EXPLOSION HAZARD DATA

Autoignition Temperature: N/A

Extinguishing Media: Carbon dioxide, dry chemical powder, or appropriate foam.

Fire Fighting Instructions: Fire fighters exposed to vapors should wear a self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, and silicon oxide.

SECTION 6 – SPILL INFORMATION

Personal Precautions: Exercise appropriate precautions to minimize direct contact with skin or eyes.

Methods for Cleaning Up: Use an inert absorbent. Sweep up, place in bag and hold for disposal. Ventilate area and wash spill site after material pick up is complete.

SECTION 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 to cool temperatures in tightly closed containers.

Additional Information: Store in a cool place.

SECTION 8 – PRECAUTIONARY MEASURES/PPE

Engineering Controls: Exhaust ventilation, safety shower and eye bath.

Ventilation Requirements: Mechanical exhaust required.

Eye/Face Protection: Chemical safety goggles or face shield.

Skin Protection: Protective gloves. Wash thoroughly after handling

Respiratory Protection: NIOSH approved respirator.

SECTION 9 – PHYSICAL/CHEMICAL APPEARANCE

Appearance:	Liquid
Melting Point:	N/A
Color:	Colorless or off white
Molecular/Chemical Formula:	(C ₁₆ H ₃₂ O ₆ Si ₆) _n
Molecular Weight:	Variable
Odor:	Slight
Reactivity in Water:	No
Solubility in Water:	No
Density:	1.03 kg/lit

SECTION 10 – REACTIVITY

Stability:	Stable
Conditions to Avoid:	Strong Bases
Hazardous Decomposition Products:	Unknown
Hazardous Polymerization:	Will not occur.

SECTION 11 – TOXICITY DATA

Route of exposure

Skin Contact:	May cause irritation.
Skin Absorption:	May be harmful if absorbed through skin.
Eye Contact:	May cause eye irritation.
Inhalation:	May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion:	May be harmful if swallowed.

Additional Information: To the best of our knowledge the toxicological properties have not been thoroughly investigated.

SECTION 12 – ECOLOGICAL DATA

Ecological Information: No data available.

SECTION 13 – DISPOSAL INFORMATION

Disposal Information: Contact a licensed professional waste disposal service to dispose of this material. Disposal should be made in accordance with Federal, State and Local regulations.

SECTION 14 – TRANSPORTATION DATA

DOT

Proper Shipping Name:	None
Non-Hazardous for Transport:	This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport:	This substance is considered to be non-hazardous for air transport.
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SECTION 15 – REGULATORY DATA

U.S. Federal Regulations: This product is not currently regulated by SARA/EPCRA

TSCA: No. R&D Use Only

SECTION 16 – OTHER INFORMATION

Disclaimer: For R&D use only. Not for drug, household or other uses.

Hybrid Plastics has compiled the information and recommendations contained in this Material Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS 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 Federal or State Laws.