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

SAFETY DATA SHEET

1. Identification

Product Name	**POSS® Resin SC5000 - Parts A+B**
Product Number	**SC5000**
Synonyms	NA
CAS Number	NA
Product Use	Various
Manufacturer	Hybrid Plastics, Inc. 55 Runnels Dr. Hattiesburg, MS 39401 US
Telephone	+1.601.544.3466
Emergency Telephone	US & Canada: 1.800.255.3924 International: +01.813.248.0585

2. Hazards Identification

GHS Classification
Flammable Liquid 4 H227
Serious eye damage/eye irritation Category 2A
H319 Causes serious eye irritation

GHS Label Elements

Pictogram

Signal Word Warning

HAZARD Statement(s)
H227 Combustible liquid
H319 Causes serious eye irritation

PRECAUTIONARY Statement(s)
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash hands thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do so. Continue rinsing.
P337+P313 If eye irritation persists, get medical advice/attention.

P210 Keep away from heat, open flames, & sparks. No smoking, obviously.
P370+P378 In case of Fire: Use foam, carbon dioxide, or dry chemical to extinguish.
P403+P235 Keep in a cool place.
P501 Dispose of contents/container to licensed waste disposal facility.

HMIS Classification

Health Hazard	2
Flammability	2
Physical Hazards	1

3. COMPOSITION / Ingredient Information

Chemical Identity	CAS#	EC#	Concentration	Impurities
Vinyltrimethoxysilane hydrosylate	131298-48-1	603-472-1	>50%	None
Phenyl-tris(dimethylsiloxy)silane	18027-45-7	241-940-3	<50%	None
Diallybisphenol A	1745-89-7	217-121-1	<5%	None
Catalyst	68585-32-0	271-555-6	<0.5%	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 mouth out 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 & 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 under inert atmosphere. Store in a well-ventilated place. Store away from heat. Store away from alkalis, metal salts, oxidizing agents, and precious metals.

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 & 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

Physical state	Liquid
Appearance	Clear to cloudy liquid
Color	Colorless
Viscosity	100cps
Specific Gravity	1.1
Odor	None
Vapor Density	No data available
Evaporation Rate	No data available
Boiling Point	No data available
Melting Point	< 0 °C
Decomposition Temperature	No data available
Reactivity in Water	Not Reactive
Solubility in Water	Insoluble

10. Stability and Reactivity

Chemical Stability
Stable in sealed containers stored under a dry inert atmosphere.

Conditions/Materials to Avoid
Store away from alkalis, oxidizers, metal salts, precious metals.

Incompatible Materials:
Alkalis, oxidizers, metal salts, precious metals

Possibility of Hazardous Reactions
The product can generate small amounts of hydrogen when exposed to alkalis and protic materials such as water and alcohol in combination with metal salts such as aluminum chloride or precious metals such as platinum.

Hazardous Decomposition Products
Hydrogen, carbon oxides, silicon oxides, organic acid vapors.

11. Toxicological Information

Acute Toxicity
No data available

Skin Corrosion & Irritation
May cause skin irritation

Serious Eye Damage / Eye Irritation

May cause eye irritation

Respiratory or Skin Sensitization
May cause irritation to the respiratory tract

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

UN Number

DOT NA No	NA1993

UN Proper Shipping Name

Transport document description :	NA1993 Combustible liquid, n.o.s., 3, III
Proper Shipping Name (DOT):	Combustible liquid, n.o.s.
Class (DOT):	3 - Class 3 - Flammable and combustible liquid 49 CFR173.120
Packing group (DOT):	III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx):	203
DOT Packaging Bulk (49 CFR 173.xxx):	241
DOT Packaging Exceptions (49 CFR 173.xxx):	150

Classification for Road & 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

Other Information:
This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons (450 liters). The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations. Therefore, no UN# is applicable to this product.

15. Regulatory Information

U.S. Federal Regulations
Vinyltrimethoxysilane, oligomeric hydrosylate (131298-48-1):
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Proprietary silane crosslinking agent :
Listed on the United States TSCA (Toxic Substances Control Act) inventory

International Regulations
Canada
Vinyltrimethoxysilane, oligomeric hydrosylate (131298-48-1):
Listed on the Canadian NDSL (Non-Domestic Substances List)
Proprietary silane crosslinking agent (18027-45-7):

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations
Proprietary silane crosslinking agent (18027-45-7):
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National Regulations
Vinyltrimethoxysilane, oligomeric hydrosylate (131298-48-1):
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Proprietary silane crosslinking agent (18027-45-7):
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

REACH (EU) Not registered

16. Other Information

Date prepared: 09.17.2024
Reviewed by: Director of Commercial Products

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