

Hybrid Plastics®

Superior Technology for Superior Products

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hybridplastics.com

THIS PRODUCT IS NOT HAZARDOUS. THIS DOCUMENT IS FOR INFORMATION ONLY.

Product Safety Information Sheet

1. Identification

Product Name	Acrylo POSS® Cage Mixture
Product Number	MA0736
Synonyms	Silsesquioxanes, 3-[(1-oxo-2-propen-1-yl)oxy]propyl, hydroxy-terminated.
CAS Number	1620202-27-8
Product Use	Industrial Processing, Coatings, Cast Sheet, Adhesives.
Restrictions on Use	Under no conditions are these materials to be employed for food or drug use.
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2. Hazards Identification

GHS Classification	Not classified.
Physical hazards	None

Health hazards

Acute toxicity, oral
 Acute toxicity, dermal
 Acute toxicity, inhalation
 Skin corrosion/irritation
 Serious eye damage/irritation
 Sensitization, respiratory
 Sensitization, skin
 Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 Specific target organ toxicity, single exposure
 Specific target organ toxicity, repeated exposure
 Aspiration hazard

Not OSHA classified.
 Potential for slight irritation (rare).
 Not classified due to lack of data.
 Not a primary dermal irritant.
 Not classified due to lack of data.
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Environmental hazards

Hazardous to the aquatic environment, acute hazard
 Hazardous to the aquatic environment, long-term hazard
 Hazardous to the ozone layer

Not classified due to lack of data.
 Not classified due to lack of data.
 Not classified due to lack of data.

GHS Label Elements

None

Signal Word

None

Hazard Statement(s)

None

3. Composition/Information on Ingredients

Chemical Identity	CAS#	EC#	Conc.
Silsesquioxanes, 3-[(1-oxo-2-propen-1-yl)oxy]propyl, hydroxy-terminated	1620202-27-8	-	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. If exposed or concerned, get medical advice and attention.

Eye Contact

Flush eyes with plenty of water. If exposed or concerned, get medical advice and attention.

Ingestion

If swallowed, do not induce vomiting. Wash out mouth with water if person is conscious. If concerned, get medical advice and attention.

Other Remarks for Doctors

No significant health effect is known. Not expected to present a significant hazard under anticipated conditions of normal use.

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

Do not store under inert atmosphere.

Short-term: Ambient temperatures in tightly closed containers.

Long-term: Store at 40°F in tightly closed containers.

8. Exposure Controls/Personal Protection

Control Parameters

The product contains no substances with occupational exposure limit values.

Appropriate engineering controls

Use local exhaust ventilation.



Respiratory protection

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	Colorless liquid
Odor	Slight olefin smell
Odor threshold	Not applicable
pH	Not applicable
Melting/freezing point	No data available
Initial boiling point and range	Polymerization & decomposition > 350 °C
Flash point	>100°C (212°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	1.2
Solubility(ies)	Tetrahydrofuran (s)
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature	No data available
Decomposition temperature	>350 °C
Viscosity @ 20 °C / 100 s ⁻¹	3.5 Pa-s

10. Stability and Reactivity

Chemical stability

Stable under recommended storage conditions. Do not store material under nitrogen.

Conditions/materials to avoid

Exposure to strong bases, oxidizers. Temperatures greater than 50°C

Incompatible Materials

Strong bases, fluoride ion, oxidizers.

Hazardous decomposition products

Carbon dioxide, Carbon monoxide, Silicon Oxides

Hazardous polymerization

Has not been reported to occur.

11. Toxicological Information**Likely Routes of Exposure**

Skin contact, eye contact, ingestion.

Acute toxicity

LD₅₀ > 5 g/kg

Skin corrosion/irritation

PII: 0.20 / Not a primary dermal irritant

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No genotoxic activity

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

National Regulations – Other Domestic/Foreign Laws

Silsesquioxanes, 3-[(1-oxo-2-propen-1-yl)oxy]propyl, hydroxy-terminated (1620202-27-8)

Regulatory Reference

United States TSCA (Toxic Substances Control Act) inventory: Low Volume Exemption (LVE)

16. Other Information

Date prepared: 10.11.2023

Reviewed by: Director of Commercial Products

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