



# SAFETY DATA SHEET

**I N N O V A T I V E**  
**P O L Y M E R S Y S T E M S**

This safety data sheet complies with the requirements of: GB/T 17519-2013

**Issue Date** 23-Apr-2025

**Revision Date** 04-Jun-2026

**Version** 1

## Product identifier

**Product Name** Silicone Roof Coating

## Other means of identification

**Product Code** S750

**Synonyms** Roof Coating

## Recommended use of the chemical and restrictions on use

**Recommended Use** Reflective Roof Coating.

**Uses advised against** For exterior use only. Do not use indoors.

## Details of the supplier of the safety data sheet

**Manufacturer Address** Innovative Polymer Systems

4117 Capital Drive

New Albany, IN 47150

[\(812\) 776-6251](tel:8127766251)

## Emergency telephone number

**Emergency Telephone** Call CHEMTREC Day or Night:

Within USA and Canada: 1-800 424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard class	Category
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

### Label elements

### Emergency Overview

### Danger



### Hazard statements

Harmful in contact with skin

Harmful if inhaled  
 May cause an allergic skin reaction  
 May cause cancer  
 Suspected of damaging fertility or the unborn child  
 Causes damage to organs through prolonged or repeated exposure

### Precautionary Statements - Prevention

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Wear protective gloves/clothing and eye/face protection  
 Use only outdoors or in a well-ventilated area  
 Contaminated work clothing must not be allowed out of the workplace  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product

### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of water and soap  
 Call a POISON CENTER or doctor if you feel unwell  
 Take off contaminated clothing and wash it before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing

### Precautionary Statements - Storage

Store locked up

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

- Causes mild skin irritation

Unknown acute toxicity: 95 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable

### Mixture

**Synonyms** Roof Coating.

Chemical name	CAS No.	Weight-%	Trade secret
Polydimethylsiloxanes	Proprietary	45 - 60%	*
Silica, Crystalline	Proprietary	25 - 45%	*
Titanium Dioxide	13463-67-7	0 - 10%	*
Methyl Tris (MEKO) Silane	22984-54-9	0 - 10%	*
Octamethylcyclotetrasiloxane	556-67-2	0 - 10%	*
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0-5%	*

**Appearance** Opaque liquid    **Physical state** Liquid    **Odor** Peppermint

## 4. FIRST AID MEASURES

### Description of first aid measures

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** None known for product as a whole.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Water.

**Specific hazards arising from the chemical**

The product causes irritation of eyes, skin and mucous membranes.

**Explosion data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13).

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Silica, Crystalline	TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter	TWA: 50 µg/m <sup>3</sup> (excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays); (vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust; (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction; (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust; TWA: 0.05 mg/m <sup>3</sup> respirable dust

Titanium Dioxide 13463-67-7	TWA: 0.2 mg/m <sup>3</sup> nanoscale respirable particulate matter; TWA: 2.5 mg/m <sup>3</sup> finescale respirable particulate matter	TWA: 15 mg/m <sup>3</sup> total dust; (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup> ; TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine; TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine, including engineered nanoscale
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**Appropriate engineering controls**

**Engineering Controls** Showers / Eyewash stations / Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** No special technical protective measures are necessary.

**Skin and body protection** No special technical protective measures are necessary.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

**Physical state** Liquid

**Appearance** Opaque liquid

**Odor** Peppermint

**Color** White Various

**Odor threshold** Not applicable

Property	Values	Remarks • Method
pH	7	Not applicable
Melting point/freezing point	N/A	None / -94
Boiling point / boiling range	No information available	Not applicable
Flash point	> 60 / > 140	

**Explosive properties** Not applicable

**Oxidizing properties** Not applicable

**Other information**

**Softening point** Not applicable

**Molecular weight** N/A

**VOC Content (%)** Less than 50 g/l

**Density** ~10,8

**Bulk density** Not applicable

**Evaporation rate** N/A

**Flammability (solid, gas)** N/A / Not applicable

**Flammability Limit in Air** For exterior use only. Do not use indoors. Upper flammability limit: Non-Flammable;

Lower flammability limit: Non-Flammable

**Vapor pressure** Not Determined

**Vapor density** Not Determined

**Specific gravity** ~1.29

**Water solubility** Insoluble in water

**Solubility in other solvents** Soluble in aromatic and aliphatic solvents.

**Partition coefficient** Undetermined — No data available.

**Autoignition temperature** None

**Hyphen** Not Determined

**Kinematic viscosity** N/A

**Dynamic viscosity** N/A

**10. STABILITY AND REACTIVITY****Reactivity****Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials

None known based on information supplied.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** Compounded product is considered non-hazardous.

**Inhalation** No data available.

**Eye contact** No data available.

**Skin contact** No data available.

**Ingestion** No data available.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polydimethylsiloxanes	> 15400 mg/kg ( Rat )	> 16 mL/kg ( Rabbit )	> 8750 mg/m <sup>3</sup> ( Rat ) 7 h
Titanium Dioxide 13463-67-7	> 10000 mg/kg ( Rat )	-	= 5.09 mg/L ( Rat ) 4 h
Methyl Tris (MEKO) Silane 22984-54-9	-	> 2000 mg/kg ( Rat )	-
Octamethylcyclotetrasiloxane 556-67-2	= 1540 mg/kg ( Rat )	> 2375 mg/kg ( Rat )	= 36 mg/L ( Rat ) 4 h
N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3	= 2413 mg/kg ( Rat )	> 2009 mg/kg ( Rabbit )	1.49 - 2.44 mg/L ( Rat ) 4 h

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No symptoms were observed.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** May cause sensitization of susceptible persons.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Silica, Crystalline	A2	Group 1	Known	X
Titanium Dioxide 13463-67-7	A3	Group 2B	-	X

**Reproductive toxicity** None known for product as a whole.

**STOT - single exposure** Not classified.

**STOT - repeated exposure** Not classified.

**Target organ effects** Respiratory system, Eyes, Lungs.

**Aspiration hazard** Not applicable.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 7,087.30

ATEmix (dermal) 1,920.40

ATEmix (inhalation-gas) 99,999.00

ATEmix (inhalation-dust/mist) 6.82

ATEmix (inhalation-vapor) 11.00

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

1.5 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Octamethylcyclotetrasiloxane 556-67-2	-	LC50: >500mg/L (96h, Brachydanio rerio); LC50: >1000mg/L (96h, Lepomis macrochirus)	-

**Persistence and degradability**

Not readily biodegradable.

**Bioaccumulation**

Unknown.

Chemical name	Partition coefficient
Octamethylcyclotetrasiloxane 556-67-2	6.488

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

**Contaminated packaging** Do not reuse container.

**14. TRANSPORT INFORMATION**

Note: Not classified as dangerous in the meaning of sea and air transport regulations

**DOT** Not regulated.

**TDG** Not regulated.

**MEX** Not regulated.

**ICAO (air)** Not regulated.

**IATA** Not regulated.

**IMDG** Not regulated.

**RID** Not regulated.

**ADR** Not regulated.

**ADN** Not regulated.

**15. REGULATORY INFORMATION**

**International Inventories**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

**Acute health hazard** Yes

**Chronic Health Hazard** Yes

**Fire hazard** No**Sudden release of pressure hazard** No**Reactive Hazard** No**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Silica, Crystalline	Carcinogen
Titanium Dioxide - 13463-67-7	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Silica, Crystalline	X	X	X
Titanium Dioxide 13463-67-7	X	X	X

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Chronic Hazard Star Legend \* = Chronic Health Hazard

**Prepared By** IPS Technical Service Department

**Issue Date** 23-Apr-2025

**Revision Date** 04-Jun-2026

**Revision Note** N/A

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**

NFPA: Health hazards 2 / Flammability 1 / Instability 0 / Special hazards -

HMIS: Health hazards 1\* / Flammability 1 / Physical hazards 0 / Personal protection X