

Statements

Prevention: Use personal protective equipment as required.

Response: IF exposed or concerned: Get medical advice/attention.

Other hazards which do not result in GHS classification: Chemical compounds containing silicon - hydrogen bonds (SiH). This product may generate hydrogen gas. For further information, refer to section 10: "Stability and Reactivity".

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Octamethylcyclotetrasiloxane	556-67-2	0.1 - <1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: Mixture of Polyorganosiloxanes, fillers, additives.

4. First-aid measures

General information: For further information refer to section 8 "Exposure-controls/personal protection".

Ingestion: Do not induce vomiting. Rinse mouth thoroughly. Get medical attention if symptoms occur.

Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin Contact: Wash contact areas with soap and water. Get medical attention if symptoms occur after washing.

Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

Symptoms: None known.

Hazards: No specific recommendations.

Indication of immediate medical attention and special treatment needed

Treatment: No specific recommendations.

5. Fire-fighting measures

General Fire Hazards: No specific recommendations.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Dry chemical, alcohol resistant foam or carbon dioxide (CO ₂).
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire. Do not use alkaline powders.
Specific hazards arising from the chemical:	This product may generate hydrogen gas. Vapors may form explosive mixtures with air. For further information, refer to section 10: "Stability and Reactivity". Hazardous Decomposition Products : formaldehyde, oxides of carbon and silica.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	Water spray should be used to cool containers.
Special protective equipment for fire-fighters:	Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with alkalis and caustic products. Eliminate all sources of ignition.
Methods and material for containment and cleaning up:	Avoid contact with alkalis and caustic products. Use non-sparking tools. Absorb with sand or other inert absorbent. Scrape up and place in appropriate vented container.
Notification Procedures:	Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.
Environmental Precautions:	Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Mechanically ventilate the spillage area to prevent the formation of explosive concentrations.

7. Handling and storage

Precautions for safe handling:	Provide sufficient ventilation during operations which cause vapor formation. Do not mix with incompatible materials. For further information, refer to section 10: "Stability and Reactivity". Read and follow manufacturer's recommendations.
Conditions for safe storage, including any incompatibilities:	Store in original vented container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Quartz and Carbon Black : When encapsulated in a polymer, are not expected to pose a health hazard when processed under normal conditions of use.

Appropriate Engineering Controls No specific recommendations.

Individual protection measures, such as personal protective equipment

- General information:** Provide sufficient ventilation during operations which cause vapor formation.
- Eye/face protection:** Safety Glasses.
- Skin Protection**
- Hand Protection:** Protective gloves are recommended.
- Other:** Wear suitable protective clothing.
- Respiratory Protection:** No protection is ordinarily required under normal conditions of use and with adequate ventilation.
- Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance

- Physical state:** Liquid
- Form:** Viscous
- Color:** Black
- Odor:** Slight odor
- Odor threshold:** No data available.
- pH:** Not applicable
- Freezing point:** No data available.
- Boiling Point:** > 392 °F (200 °C)
- Flash Point:** 248 °F (120 °C) (Closed cup according to method DIN 51758.)
- Evaporation rate:** No data available.
- Flammability (solid, gas):** No data available.
- Flammability limit - upper (%):** 74 %(V) Hydrogen.
- Flammability limit - lower (%):** 4 %(V) Hydrogen.
- Vapor pressure:** < 134 hPa (122 °F (50 °C))
- Vapor density:** No data available.
- Density:** No data available.
- Solubility(ies)**
- Solubility in water:** Insoluble
- Solubility (other):** Acetone: Very slightly soluble.
 Ethanol: Very slightly soluble.
 Diethylether: Miscible (in all proportions).
 Aliphatic hydrocarbons: Miscible (in all proportions).
 Aromatic hydrocarbons: Miscible (in all proportions).
 Chlorinated solvents: Miscible (in all proportions).
- Partition coefficient (n-octanol/water):** No data available.
- Auto-ignition temperature:** 932 °F (500 °C) Hydrogen.

Decomposition temperature: No data available.
Viscosity: No data available.

Other information

Oxidizing properties: According to the data on the components Not considered as oxidizing. (according to EC criteria)

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: This product may generate hydrogen gas.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials: A fire or explosion hazard arises because highly flammable gas (hydrogen) is released when it is in contact with : Strong oxidizers, strong bases and chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.

Hazardous Decomposition Products: This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air. Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and amorphous silica.
Quantity of hydrogen potentially released (l/kg of product): < 10

11. Toxicological information

Information on likely routes of exposure

Ingestion: No effects expected (assessment based on ingredients).

Inhalation: No effects expected (assessment based on ingredients).

Skin Contact: No effects expected (assessment based on ingredients).

Eye contact: No effects expected (assessment based on ingredients).

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product: No data available.

Dermal Product: No data available.

Inhalation
Product: No data available.

Repeated dose toxicity
Product: No effects expected (assessment based on ingredients).

Skin Corrosion/Irritation
Product: No effects expected (assessment based on ingredients).

Serious Eye Damage/Eye Irritation
Product: No effects expected (assessment based on ingredients).

Respiratory or Skin Sensitization
Product: No effects expected (assessment based on ingredients).

Carcinogenicity
Product: No data available.
Specified substance(s):
Octamethylcyclotetrasiloxane No effects expected.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Quartz (fine fraction > 10%) Overall evaluation: Carcinogenic to humans.

Carbon black Overall evaluation: Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

Quartz (fine fraction > 10%) Known carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No effects expected (assessment based on ingredients).

In vivo
Product: No effects expected (assessment based on ingredients).

Reproductive toxicity
Product: No data available.

Specified substance(s):
Octamethylcyclotetrasiloxane Suspected of damaging fertility.

Specific Target Organ Toxicity - Single Exposure
Product: No effects expected (assessment based on ingredients).

Specific Target Organ Toxicity - Repeated Exposure
Product: No effects expected (assessment based on ingredients).

Aspiration Hazard

Product: No effects expected (assessment based on ingredients).

Other effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No effects expected (assessment based on ingredients).

Aquatic Invertebrates

Product: No effects expected (assessment based on ingredients).

Chronic hazards to the aquatic environment:

Fish

Product: No effects expected (assessment based on ingredients).

Aquatic Invertebrates

Product: No effects expected (assessment based on ingredients).

Toxicity to Aquatic Plants

Product: No effects expected (assessment based on ingredients).

Persistence and Degradability

Biodegradation

Product: The product is not readily biodegradable.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: The product is not bioaccumulating.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Mobility in soil: No data available.

Other adverse effects: None known.

13. Disposal considerations

Disposal instructions:

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Waste of this material should not be mixed with other waste. Provide measures such as vented bungs to ensure pressure relief in the waste container. Contaminated packages should be as empty as possible and equipped with a degassing device.

14. Transport information

This material is not subject to transport regulations.

Environmental hazards: Not regulated.

Special precautions for user: Packaging with a breathing/venting bung are FORBIDDEN for transport by air.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification
None present or none present in regulated quantities.

SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act
Chemical Identity
Carbon black

US. Massachusetts RTK - Substance List
No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Carbon black

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

US TSCA Inventory:	On or in compliance with the inventory.
Canada NDSL Inventory:	On or in compliance with the inventory.
EINECS, ELINCS or NLP:	On or in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory.
Australia AICS:	On or in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory.

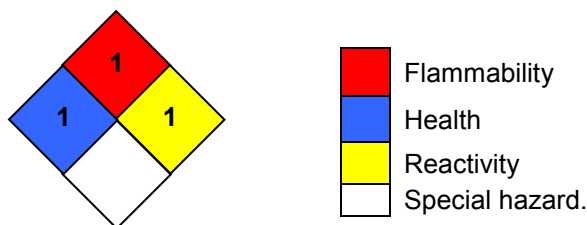
16. Other information, including date of preparation or last revision

HMIS Hazard ID

Health	*	1	B - Safety Glasses & Gloves
Flammability		1	
Physical Hazards		1	
PERSONAL PROTECTION		B	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 01/17/2019

Revision Date: 11/14/2014

Version #: 11.0

Further Information:

No data available.

Disclaimer:

The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.