



24 Madison Road, Fairfield, New Jersey 07004, USA
Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,
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MATERIAL SAFETY DATA SHEET

Section 1 – Company and Product Identification

Issued by: JEEN International Corporation
24 Madison Road
Fairfield, New Jersey 07004
Tel: # 973-439-1401

Chemtrec Emergency Tel. # 800-424-9300
Chemtrec Int'l Tel. # 703-527-3887(Collect Calls Accepted)

Product Trade Name: **JEESILC CPS-210**
Chemical Name: Cyclomethicone
Chemical Family: Silicone
CAS Number: Mixture
Description: Silicone Cyclics, D4, D5,
Health (NFPA): 1 Flammability (NFPA): 2 Reactivity (NFPA): 0

Section 2 –OSHA Hazardous Components

CAS Number	Ingredients	Wt%	Exposure Limits
556-67-2	Octamethylcyclotetrasiloxane	> 60.0	TWA 10 PPM
541-02-6	Decamethylcyclopentasiloxane	<=4.0	TWA 10 PPM
541-05-9	Hexamethyl cyclotrisiloxane	<=0.5	

The above components are hazardous as defined in 29 CFR 1910.1200.

Section 3 – Physical Data

Physical Form: Liquid
Color: Colorless
Odor: Odorless
Specific Gravity @ 25 °C: 0.95
Viscosity: 2.2 mm²/s
Freezing/Melting Point: 17.5°C
Boiling Point: 175 °C
Vapor Pressure @ 25 °C: 0.12 kPa
Vapor Density: Not determined
Solubility in water: Not determined
pH: 7
Volatile Content: Not determined

Section 4 – Fire and Explosion Hazard Data

Flash Point: 131°F (55°C) Flammable Limits in Air, % by Volume
Lower: 0.75% Upper: 7.4%
Extinguishing Media: Use Carbon Dioxide or Dry chemical on small fires. Use foam (alcohol, polymer or ordinary) and water spray for large fires.
Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
Unusual Fire and Explosion Hazards: Static electricity is not expected to build up, and product is not sensitive to static.
Auto-ignition Temperature: 752 °F (400°C)

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicone dioxide. Formaldehyde.

Section 5 – Health Hazard Data

Threshold Limit Value: See Hazardous Ingredients Section.
Effects of overexposure: Contact with skin or eyes may cause temporary irritation. Inhalation for short exposures of less than 8 hours should not cause injury. Oral contact from the fingers to the mouth should not injure. Swallowing large



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amounts may cause digestive discomfort.

Emergency and First Aid Procedures: Flush eyes with copious amounts of water for a minimum of 15 minutes. Wash contacted skin areas with soap and water. If irritation develops, consult a physician. Soaked clothing should be changed.

Section 6 – Reactivity Data

Stability: Stable [X] Unstable []
 Incompatibilities (Materials to Avoid): Strong oxidizing material can cause a reaction.
 Hazardous Decomposition Products: Silicon dioxide, carbon oxides trace amounts of formaldehyde may form when heated above 300°F.
 Hazardous Polymerization: May occur [] Will not occur [X]
 Conditions to Avoid: See above statements.

Section 7 – Spill, Leak and Disposal Procedures

Action to take for spills: (Use appropriate Safety Equipment) Use absorbent material to collect and contain for disposal. Contain large spills and pump into a suitable tank. Wash area with suitable detergent and thoroughly rinse.
 Disposal Method: All Local, State and Federal Regulations concerning health and pollution should be reviewed to determine approved disposal procedures.

Section 8 – Special Handling Information

Ventilation:

1. Local Exhaust: None should be needed.
2. Mechanical (general): Recommended.
3. Respiratory Protection (type): Canister for organic vapors (i.e. type GMA from Mine Safety Appliance Co.).
4. Protective Clothing: Clean, body-covering clothing.
5. Eye Protection: Safety glasses
6. Other Protective Equipment: Eye Fountain and Safety Shower in work area.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
 Keep container closed and stored away from heat, sparks and open flame.

Section 9 - Transport Information

Proper Shipping Name: Combustible Liquid, N.O.S.
 Hazard Technical Name: Cyclosiloxane
 Hazard Class: Combustible Liquid
 UN/NA Number: NA1993
 Packing Group: III

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances: None
 Section 304 CERCLA Hazardous Substances: None
 Section 312 Hazard Class: Acute: NO Chronic: NO Fire: NO Pressure: NO Reactive: NO

Supplemental State Compliance Information

NEW JERSEY:

CAS Number:	Ingredient	%
556-67-2	Octamethylcyclotetrasiloxane	>90
541-02-6	Decamethylcyclopentasiloxane	<5

PENNSYLVANIA:



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CAS Number:	Ingredient	%
556-67-2	Octamethylcyclotetrasiloxane	>90
541-02-6	Decamethylcyclopentasiloxane	<5

California Prop. 65: None
Section 313 Toxic Chemicals: None present or none present in regulated quantities.

Section 10 - First Aid Measures

Eye: Immediately flush with water
Skin: No first aid should be needed
Inhalation: Remove to fresh air. Get medical attention if effects persist.
Oral: No first aid should be needed.
Comments: Treat according to person's condition and specifics of exposure.

Section 11 - Exposure Controls / Personal Protection

Component Exposure limits

Cas Number	Component Name	Exposure Limits
556-67-2	Octamethylcyclotetrasiloxane	

Engineering controls

Local Ventilation: Recommended
General Ventilation: Recommended

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection – safety goggles as a minimum
Skin: Washing at mealtime and end of shift is adequate
Suitable Gloves: No special protection needed.
Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSHA/MSHA approved respirators.

Personal Protective Equipment for Spills

Eyes: Use full face respirator
Skin: Washing at mealtime and end of shift is adequate.

Inhalation/ Suitable Respirator: Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Precautionary Measures: Avoid eye contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Use reasonable care.



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Section 12 - Effects of Overexposure

Acute Effects:

Eye: Direct contact may cause temporary redness and discomfort.
Skin: No significant irritation expected from a single short-term exposure.
Inhalation: No significant effects expected from a single short-term exposure.
Oral: Low ingestion hazard in normal use.

Prolonged / Repeated Exposure Effects

Skin: No known applicable information.
Inhalation: Overexposure by inhalation may injure the following organ (s): Reproductive System.
Oral: No known applicable information.

Signs and Symptoms of Overexposure

No known applicable information.

Section 13 - Toxicological Information

Acute Toxicology Data for Product

	Species	Test Results	Type of Test
Eye Irritation	Rabbit	Mild	
Skin Irritation	Rabbit	Mild	
Oral LD50	Rat	> 2,000 mg/kg	
Inhalation LC50	Rat	36 mg/L	4 hr Vapor/Aerosol
Mutagenicity	In vitro	Negative	Ames
	Tissue Culture	Negative	Mouse Lymphoma
	Rat	Negative	Dominant Lethal

Special Hazard Information on Components

Reproductive Effects

CAS Number	Wt%	Component Name	
556-67-2	>60.0	Octamethylcyclotetrasiloxane	Evidence of reproductive effects in laboratory animals

Section 14 - Ecological Information

Environmental Fate and Distribution

Air: Low molecular weight volatile siloxanes in air are degraded by reaction with hydroxyl radicals, which is the dominant degradation process for most chemicals in the atmosphere.

Water: Low molecular weight volatile siloxanes have very low water solubility and evaporate to air.

Soil: Low molecular weight volatile siloxanes in soil are removed by several simultaneously occurring processes including volatilization, hydrolysis, and clay-catalyzed degradation.

Environmental Effects

Toxicity to water organisms: This product is volatile and has a very short half life in the aquatic environment and therefore does not present a risk to aquatic organisms.

Toxicity to Soil Organisms: Due to its volatility, this product is unlikely to be found in the terrestrial compartment.



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Bioaccumulation: Low molecular weight volatile siloxanes bioconcentrate in fish exposed under controlled laboratory conditions that are not representative of conditions found in the environment.

Fate and Effects in Waste Water Treatment Plants

This product or similar products has been shown to be non-toxic to sewage sludge bacteria.

Ecotoxicity Classification Criteria

Hazard Parameters (Ic50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <=2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall safety of this material.

Section15 - Regulatory Information

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from the listing the the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances (40 CFR 355)
None

Section 304 CERCLA Hazardous Substances (40 CFR 302)
None

Section 311/312 Hazard Class (40 CFR 370)

Acute: No
Chronic: Yes
Fire: Yes
Pressure: No
Reactive: No

Section 313 Toxic Chemicals (40 CFR 372)

None present or none present in regulated quantities.

Supplemental State Compliance Information

California

Warning: This product contains the following chemical (s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known

Massachusetts

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

New Jersey

CAS Number	Wt %	Component Name
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Pennsylvania



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CAS Number	Wt %	Component Name
556-67-2	>60.0	Octamethylcyclotetrasiloxane

Section16 - Other Information

Disclaimer: As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with applicable federal, state and local regulations remains the responsibility of the user