



JEEN INTERNATIONAL CORPORATION

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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)
Revision Date: April 17, 2012

Product Trade Name: **JEESILC CPS-312**
Chemical Name: CYCLOPENTASILOXANE, CYCLOHEXASILOXANE
Chemical Family: Silicone
CAS Number: Mixture
Description: Silicone Cyclics, D5, D6Polymer
Health (NFPA): 1 Flammability (NFPA): 1 Reactivity (NFPA): 0

Section 2 – Hazards Identification

This material contains no ingredients which are known to JEEN International Corp. to be hazardous unless listed below.

CAS Number	Wt%	Component Name	EINECS Number
541-02-6	>60.0	Cyclopentasiloxane	208-764-9
540-97-6	10.0 – 40.0	Cyclohexasiloxane	208-762-8

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

Section 3 – Composition / Information on Ingredients

Component Name

Decamethylcyclopentasiloxane
Dodecamethyl cyclohexasiloxane
Hexamethyl cyclotrisiloxane

Section 4 – First Aid Measures

Eyes: Immediately flush with water for 15 minutes.
Skin: No first aid should be needed
Inhalation: Remove to fresh air. Get medical attention if ill effects persist.
Oral: No first aid should be needed
Comments: Treat according to person's condition and specifics of exposure.

Section 5 – Fire Fighting Measures

Flash Point: PMCC 171°F Flammable Limits in Air, % by Volume: Unknown
Lower: Undetermined Upper: Undetermined
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

Section 6 – Accidental Measures

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in this MSDS. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents, or detergents. Dispose of saturated absorbent or cleaning materials appropriately,



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since spontaneous heating may occur. Local, state, and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items and items employed in the cleanup of releases. You will need to determine which federal, state, and local laws and regulations are applicable

Section 7 – Handling and Storage 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 8 – 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: | No known applicable information |
| Oral: | No known applicable information |

Signs and Symptoms of Overexposure

No known applicable information

Medical Conditions Aggravated by Exposure

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 12 for the detailed toxicology information.

Section 9 – Physical Data

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|--------------------------|----------------|
| Physical Form: | Liquid |
| Color: | Colorless |
| Odor: | Odorless |
| Specific Gravity @ 25°C: | 0.95 |
| Viscosity: | 6 cSt |
| Freezing/Melting Point: | Not determined |
| Boiling Point: | > 35 C / 95 F |
| Vapor Pressure @ 25°C: | Not determined |
| Vapor Density: | Not determined |
| Solubility in water: | Not determined |
| pH: | Not determined |
| Volatile Content: | Not determine |



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Section 10 – Stability and Reactivity Data

Stability:	Stable [X]	Unstable []
Incompatibilities (Materials to Avoid):	Strong oxidizing material can cause a reaction.	
Hazardous Polymerization:	May occur []	Will not occur [X]
Conditions to Avoid:	See above statements.	
Materials to avoid:	None	

Section 11 – Toxicological Information

Acute Toxicological Data for Product

	Species	Test Results	Type of Test
Eye irritation	Rabbit	Mild	
Skin irritation	Rabbit	Non-irritating	
Oral LD50	Rat	> 20 g/kg	
Mutagenicity	In Vitro	Negative	Ames

Component Toxicology Information

Repeated inhalation or oral exposure of mice and rats to octamethylcyclotetrasiloxane and decamethylcyclopentasiloxane produced and increase in liver size. No gross histopathological or significant clinical chemistry effects were observed. An increase in liver metabolizing enzymes, as well as a transient increase in the number of normal cells (hyperplasia) followed by an increase in cell size (hypertrophy) were determined to be the underlying causes of the liver enlargement. The biochemical mechanisms producing these effects are highly sensitive in rodents, while similar mechanisms in humans are insensitive. Good industrial hygiene practice minimizes inhalation exposure to any chemical. JEEN International has set an exposure guideline of 10 ppm TWA for these two materials.

A 2 year combined chronic/carcinogenicity assay was conducted on octamethylcyclotetrasiloxane (D4). Fischer-344 rats were exposed by whole-body vapor inhalation 6 hrs/day, 5 days/week for up to 104 weeks to 0, 10, 30, 150, or 700 ppm of D4. A statistically significant increase in incidence of (uterine) endometrial cell hyperplasia and uterine adenomas (benign tumors) was observed in female rats exposed for 24 months at 160 ppm. Whether or not this increase in incidence is truly related to the exposure to decamethylcyclopentasiloxane is questionable and yet to be determined. The 160 ppm exposure concentration greatly exceeds workplace or consumer exposure. It is unlikely that industrial, commercial, or consumer uses of products containing D5 would result in a significant risk to humans. The exposure guideline will be reevaluated when a better understanding of the significance of this new data is developed.

Special Hazard Information on Components

No known applicable information.

Section 12- Ecological Information

Environmental Fate and Distribution

Air:	This product is a small low molecular weight volatile compound, it will therefore readily partition into the atmosphere. It is however not a hydrocarbon solvent.
Water:	This product has very low water solubility (< 100 ppb). As it has a specific gravity of < 1, if discharged to water, it will initially form a surface film. However, as it is very volatile, the product will rapidly evaporate into the air. The aquatic half life is estimated between 1 – 5 days.
Soil:	As a result of rapid partitioning into the atmosphere, this product is unlikely to be found in sediment or as a component of sewage sludge.
Degradation:	This product is volatile and is degraded rapidly in the atmosphere with a half life of <30 days. Due to the very low water solubility of this product, standard OECD protocols for ready and inherent biodegradability are not suitable for measuring the biodegradability of this product.

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.
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Toxicity to Soil Organisms:	Due to its volatility, this product is unlikely to be found in the terrestrial compartment.
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Bioaccumulation: This product is a low molecular weight lipophilic molecule which has the potential for bioconcentration.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available

Section 12- Ecological Information (cont'd)

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <=200	>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 ecological safety of this material.

Section 13 – Disposal Considerations

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

Section 14 - Transport Information

DOT Not subject to DOT code.
Ocean Shipment (IMDG) Not subject to IMDG code.
AIR Shipment (IATA) Not subject to IATA regulations

Section 15– 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 induced on or exempted from listing on the TSCA Inventory of Chemical Substances

EPA SARA TITLE III Chemical Listings:

Section 302 Extremely Hazardous Substances: None

Section 304 CERCLA Hazardous Substances: None

Section 311/312 Hazard Class: Acute: No Chronic: None

CHRONIC: NO FIRE: NO PRESSURE: NO REACTIVE: NO

Section 313 Hazard Class: None present or none in regulated quantities.

Note: Chemicals are listed under the 313 Toxic Chemical section only if they meet or exceed a reporting threshold.

Supplemental State Compliance Information

California : Warning: This product contains the following chemicals 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.



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None Known

Massachusetts: No ingredient regulated by MA Right-To-Know Law present.

New Jersey:

CAS NUMBER	WT %	COMPONENT NAME
541-02-6	>60.0	DECAMETHYLCYCLOPENTASILOXANE
540-97-6	30.0-60.0	DODECAMETHYL CYCLOHEXASILOXANE

Pennsylvania

CAS NUMBER	WT%	COMPONENT NAME
541-02-6	>60.0	DECAMETHYLCYCLOPENTASILOXANE
540-97-6	30.0-60.0	DODECAMETHYL CYCLOHEXASILOXANE

Labeling according to EEC Directive

S- Phrases: S2 Keep out of the reach children

R- Phrases: N/A

No Special packaging or labeling requirements.

National legislation / regulations

Ozone depleting chemical; None present or used in manufacturing of this product.

Status

EINECS: All ingredients listed or exempt.

TSCA: All material are included on or exempt.

Section 16 – 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