



24 Madison Road, Fairfield, New Jersey 07004, USA
Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,
email: info@jeen.com , Website: www.jeen.com

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 Telephone # 800-424-9300
Chemtrec Int'l Tel.# 703-527-3887(Collect Calls Accepted)
Latest Revision Date: April 7, 2009

Product Trade Name: **JEESILC PDS-2**
Chemical Name: OCTAMETHYLTRISILOXANE
Chemical Family: Silicone
CAS Number: 541-02-6
Description: Silicone Polymer
Health (NFPA): 0 Flammability (NFPA): 2 Reactivity (NFPA): 0

Section 2 – Composition/Information on Ingredients

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

CAS Number	Ingredients	Wt%
141-63-9	Dodecamethylpentasiloxane	>60%
540-97-6	Dodecamethyl cyclohexasilosane	1.0 – 5.0
541-02-6	Decamethyl cyclopentasiloxane	1.0 – 5.0

Section 3 – Physical Data

Appearance @ 25 °C:	Liquid	Color:	Colorless
Boiling Point, °F:	> 230°C	Volatile, % by Weight:	Not Determined.
Solubility in Water (%):	Insoluble	Freezing/Melting Point:	Not Determined.
Specific Gravity @ 25°C:	0.87	Odor:	Very little odor.
Vapor Pressure, mm Hg 25 °C:	Not Determined	Flash Point, COC, °F:	188.6 °F/ 87 °C (Tag Closed Cup)
Vapor Density, (Air=1):	Not Determined	Viscosity:	2cSt
Autoignition Temperature:	Not Determined	Flammability Limits in Air:	Not Determined

Section 4 – Fire and Explosion Hazard Data

Flash Point: PMCC: 188.6°F/87 °C Flammable Limits in Air, % by Volume: Unknown
Lower: Undetermined Upper: Undetermined
Auto-Ignition: Not Determined
Extinguishing Media: Use Carbon Dioxide(CO2), Dry chemical or Water Spray on small fires. Use dry chemical, foam or water spray for large fires.
Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Unusual Fire and Explosion Hazards: None. Static electricity is not expected to build up, and product is not sensitive to static.

Section 5 – Health Hazard Data

Potential Health Effects

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.



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Section 5 – Health Hazard Data Continued...

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.

Section 6 – First Aid Measures

Eye: Immediately flush with water.
Skin: No first aid should be needed.
Inhalation: No first aid should be needed.
Oral: No first aid should be needed.

Notes to Physician: Treat symptomatically

Section 7 – Stability and Reactivity Data

Stability: Stable 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
Conditions to Avoid: See above statements.

Hazardous Decomposition Products

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

Section 8 – Spill, Leak and Disposal Procedures

Containment/Clean up: Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Section 5 and 8. 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 material from spill with suitable absorbent. Clean area as appropriate since spilled 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 material appropriately, 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 employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulation are applicable. All Local, State and Federal Regulations concerning health and pollution should be reviewed to determine approved disposal procedures.

Section 9 – Handling and Storage

Use with adequate ventilation. Avoid eye contact.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and stored away from heat, sparks and open flame.



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Section 10 – Exposure Controls/Personal Protection

Component Exposure Limits

CAS Number	Component Name	Exposure Limits
541-02-6	Decamethylcyclopentasiloxane	TWA 10 ppm

Engineer Controls

Local Ventilation: Recommended
General Ventilation: Recommended

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection – safety glasses as a minimum
Skin: Washing at mealtime and end of shift is adequate
Suitable Gloves: Handle in accordance with good industrial hygiene and safety practices.
Inhalation: No respiratory protection should be needed.
Suitable Respirator: None should be needed

Personal Protective Equipment for Spills

Eyes: Use proper protection – safety glasses as a minimum
Skin: Washing at mealtime and end of shift is adequate
Inhalation/Suitable Respirator: No respiratory protection should be needed.
Precautionary Measures: Avoid eye contact. Use reasonable care.
Comments: When heated to temperatures above 150 °C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to eyes, nose, throat, skin and digestive systems. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

Section 11 – Toxicological Information

Component Toxicology Information

Recent results from a 2 year repeated vapor inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. These effects, which have been shown to be rat-specific, occur at the highest exposure dose (160 ppm) only, a level that greatly exceeds typical workplace or consumer exposures. Industrial, commercial or consumer uses of product containing D5 do not represent a risk to humans.

Special Hazard Information on Components

No known applicable information.

Section 12 – Ecological Information

Environmental Fate and Distribution

Air: This product is a high molecular weight liquid polymer which has a very low vapor pressure (<1 mm Hg). As a result it is unlikely to become an atmospheric contaminant unless generated as an aerosol.
Water: This product has a 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. As the product is non volatile and has a high binding affinity for particulate matter, it will adsorb to particulates and sediment out.
Soil: If discharged to surface water, this product, will bind to sediment. If discharged in effluent to a waste water treatment plant, the product is removed from the aqueous phase by binding to sewage sludge. If the sewage sludge is subsequently spread on soil, the silicone product is expected to degrade.



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Section 12 – Ecological Information Continued.....

Degradation: This product, polydimethylsiloxane, degrades in soil abiotically to form smaller molecules. These in turn are either biodegraded in soil or volatilized into the air where they are broken down in the presence of sunlight. Under appropriate conditions, the ultimate degradation products are inorganic silica, carbon dioxide and water vapor. 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. The product is removed > 80% during the sewage treatment process.

Environmental Effects

Toxicity to Water

Organisms: Based on analogy to similar materials this product is expected to exhibit low toxicity to aquatic organisms.

Toxicity to Soil

Organisms: Experiments show that when sewage sludge containing polydimethylsiloxane is added to soil, it has no effect on soil micro-organisms, earthworms or subsequent crops grown in the soil.

Bioaccumulation: This product is a liquid and is a high molecular weight polymer. Due to its physical size it is unable to pass through, or be absorbed by biological membranes. This has been confirmed by testing or analogy with similar products.

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 (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=1--	>100
Acute Terrestrial Toxicity	<=1--	>100 and <=2000	>2000

Section 13 – Disposal Considerations

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No
State or local laws may impose additional regulatory requirement regarding disposal.

Section 14 - Transport Information

Proper Shipping Name: Combustible Liquid N.O.S.
Hazard Technical Name: POLYDIMETHYLSILOXANE
Hazard Class: Combustible Liquid
UN/NA Number: NA 1993
Packing Group: III

Proper IATA Shipping Name: Not subject to IATA

Proper IMDG Shipping Name: Not subject to IMDG



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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 included 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: NO Fire: YES Pressure: NO Reactive: NO
Section 313 Toxic Chemicals (40 CFR 372): None present or none present in regulated quantities.
Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

Supplemental State Compliance Information

NEW JERSEY:	CAS Number: 141-63-9	Ingredients:	Dodecamethylpentasiloxane	>60
	CAS Number: 63148-62-9	Ingredient:	Polydimethylsiloxane	15 -40
	CAS Number: 540-97-6	Ingredient:	Dodecamethyl cyclohexasiloxane	1.0-5.0
	CAS Number: 541-02-6	Ingredient:	Decamethyl cyclopentasiloxane	1.0 -5.0

PENNSYLVANIA:	CAS Number: 141-63-9	Ingredients:	Dodecamethylpentasiloxane	> 60
	CAS Number: 63148-62-9	Ingredient:	Polydimethylsiloxane	15 -40

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.

Section 16 – Other Information

These data are offered in good faith as typical values and not as a Product Specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable; however, each user should review these recommendations in the specific context of intended use and determine whether they are appropriate.
