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#### Material Safety Data Sheet

#### Section 1 – Company and Product Identification

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

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

Product Name: **JEESILC 3667**

Chemical Family: Silicone Fluids

Latest Revision Date:10-02-01

CAS No.: MIXTURE

NFPA: Health: 1 Flammability: 2 Instability/Reactivity: 0

#### Section 2 – Composition Information on Hazardous Ingredients

<u>Substance</u>	<u>CAS Number</u>	<u>Wt. %</u>
Decamethylcyclopentasiloxane	541-02-6	1.0 – 5.0
Octamethylcyclotetrasiloxane	556-67-2	1.0 – 5.0

Hazardous as defined in 29 CFR 1910.1200.

#### Section 3 – Effects of Overexposure

##### Acute Effects:

Eye: Direct contact may cause mild irritation.  
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: Repeated or prolonged exposure may cause irritation.  
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.

##### 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 11 for the detailed toxicology information.

#### Section 4 – First Aid Measures

In Case of Swallowing: No first aid should be needed.  
In Case of Inhalation: Remove to fresh air. Get medical attention if ill effects persist.  
In Case of Contact with Eyes: Rinse immediately with plenty of water for at least 15 minutes; if irritation persists obtain medical attention.  
In Case of Contact with Skin: No first aid should be needed.

#### Section 5 – Fire Fighting Measures

Flash Point: 153°F/67.2°C (Pensky-Martens Closed Cup)  
Auto-ignition Temperature: Not determined  
Flammability Limits in Air: Not determined  
Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.



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### Section 5 – Fire Fighting Measures

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**Fire Fighting Measures:** Self-contained breathing apparatus and protective clothing should be worn in fighting large 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 Hazards:** None  
**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. Hydrogen. Formaldehyde.

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### Section 6 Accidental Release Measures

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**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 Sections 5 and 8. For large spills, provide

**Containment/Clean up:** 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 absorbant. 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 absorbant or cleaning materials 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 regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirement.

See section 8 for Personal Protective Equipment for Spills,.

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### Section 7 – Handling and Storage

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Use with adequate ventilation. Avoid eye contact. Avoid breathing vapor, mist, dust or fumes. Keep container closed.

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 away from heat, sparks, and flame.

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### Section 8 – Exposure Controls/Personal Protection

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#### Component Exposure Limits

<u>Substance</u>	<u>CAS Number</u>	<u>Exposure Limits</u>
Decamethylcyclopentasiloxane	541-02-6	See Section 11 comments
Octamethylcyclotetrasiloxane	556-67-2	TWA 10 ppm

#### Engineering controls:

**Local Ventilation:** Recommended  
**General Ventilation:** Recommended

**Inhalation:** Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are with recommended exposure guidelines. Industrial Hygiene 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 as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.



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## Section 8 – Exposure Controls/Personal Protection

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### Personal Protective Equipment for Routine Handling

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 (29CFR 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.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray application may require added precautions.

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## Section 9 – Physical and Chemical Properties

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Appearance:	Clear to Slightly Hazy Light Yellow to Amber Liquid
Odor:	Characteristic Odor
Specific Gravity @ 25°C:	1.036
Viscosity:	150-400
Freezing/Melting Point:	Not Determined.
Boiling point/range:	> 35° C/95°F
Vapor Density:	Not Determined
Solubility in Water:	Not Determined
pH:	Not Determined
Volatile Content:	Not Determined

Note: The above information is not intended for use in preparing product specifications. Contact JEEN International for this information.

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## Section 10 – Stability and Reactivity

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Chemical Stability:	Stable
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to avoid:	None
Materials to avoid:	Oxidizing material can cause a reaction.

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## Section 11 – Toxicological Information

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### Acute Toxicology Data for Product

Complete information is not yet available.

### Component Toxicology Information

Octamethylcyclotetrasiloxane administered to rats by whole body inhalation at concentrations of 500 and 700 ppm for 70 days prior to mating, through mating, gestation and lactation resulted in decreases in live litter size. Additionally, increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia) were observed at these concentrations. Statistically significant alterations in these parameters were not observed in the lower concentrations evaluated (300 and 70 ppm). In a previous range-finding study, rats exposed to vapor concentrations of 700 ppm had decreases in the number of implantation sites and live litter size. The significance of these findings to humans is not known.

In developmental toxicity studies in which rats and rabbits were exposed to octamethylcyclotetrasiloxane by vapor inhalation at concentrations up to 700 ppm and 500 ppm respectively, no teratogenic effects were observed.



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#### Section 11 – Toxicological Information

Repeated inhalation or oral exposure of mice and rats to octamethylcyclotetrasiloxane and decamethylcyclopentasiloxane produced an 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 to rodents, while similar mechanisms in humans are insensitive. Good industrial hygiene practice minimizes inhalation exposure to any chemical. The exposure guideline of 10 ppm TWA is set for these 2 materials.

#### Special Hazard Information on Components

##### Reproductive Effects

CAS Number	Wt.%	Component Name	Evidence of reproductive effects in laboratory animals.
556-967-2	1.0 – 5.0	Octamethylcyclotetrasiloxane	

#### Section 12 – Ecological Information

Environmental Fate and Distribution: No specific information is available.  
Environment Effects: No specific information is available.  
Fate and Effects in Waste Water Treatment Plants: No specific information is available.

##### 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 <=2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment," ASTM STP 1179, p34, 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 Information

##### RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes

Characteristic Waste: Reactive: D003

State or local laws may impose additional regulatory requirements regarding disposal.

#### Section 14 – Transportation Information

U.S. DOT Proper Shipping Name: Combustible Liquid, N.O.S.  
UN Number:  
Hazard Technical Name: Cyclosiloxane  
Hazard Class: Combustible Liquid  
UN/NA Number: NA 1993  
Packing Group: III  
Remarks: Above applies only to containers over 119 gallons or 450 liters.  
IATA/DGR limits: Not subject to ICAO regulations  
IMDG Not subject to IMDG

#### Section 15 – Regulatory Information

Information provided in this Material Safety Data Sheet complies with the OSHA Hazard Communication Standard per 29CFR19.1200

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 Listing

Section 302 Extremely Hazardous Substances:  None  
Section 304 CERCLA Hazardous Substances:  None



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### Section 15 – Regulatory Information

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Section 312 Hazard Class:

Acute:

No

Chronic: Yes

Fire: Yes

Pressure: No

Reactive: No

Section 313 Toxic Components at reportable levels: None present or non 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
102783-01-7	>60.0	Dimethyl siloxane, ethoxylated 3-hydroxypropyl-terminated
27274-31-3	15.0 – 40.0	Polyethylene oxide monoallyl ether
25322-68-3	5.0 – 10.0	Polyethylene glycol
556-67-2	1.0 – 5.0	Octamethylcyclotetrasiloxane
541-02-6	1.0 – 5.0	Decamethylcyclopentasiloxane
None	1.0 – 5.0	Dimethylcyclosiloxanes

Pennsylvania

CAS Number	Wt. %	Component Name
102783-01-7	>60.0	Dimethyl siloxane, ethoxylated 3-hydroxypropyl-terminated
27274-31-3	15.0 – 40.0	Polyethylene oxide monoallyl ether
25322-68-3	5.0 – 10.0	Polyethylene glycol

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### Section 16 – Other Information

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**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