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SECTION 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING



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- 1.1 Product Identifier**  
Product Name **JEESILC DMC-141**
- 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**  
Identified uses **Cosmetic raw material**
- 1.3 Details of the Supplier of the Safety Data Sheet**  
Company **JEEN International Corporation**  
**24 Madison Road**  
**Fairfield, New Jersey 07004**  
**Tel: +1-973-439-1401**  
**Fax: +1-973-439-1402**  
**email: [info@jeen.com](mailto:info@jeen.com)**  
**Website: [www.jeen.com](http://www.jeen.com)**
- 1.4 Emergency telephone number** **+1703-527-3887(Chemtrec Int'l Tel - Collect calls accepted)**

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SECTION 2 – HAZARDS INGREDIENTS

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- 2.1 Classification of the Substance or Mixture** according to Regulation (EC) 1272/2008  
Flammable liquids : Category 3  
Reproductive toxicity : Category 2
- 2.2 Label Elements** according to Regulation (EC) EU 1272/2008  
Hazard pictogram
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- Signal words **Warning**
- Hazard statements  
H226 Flammable liquid and vapor.  
H361 Suspected of damaging fertility or the unborn child
- Precautionary statements  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P308 + P313 IF exposed or concerned: Get medical advice/



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attention.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other Hazards** None known

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**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

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<b>3.1 Mixture</b>	
Chemical characterization	Cosmetic ingredients
INCI	Cyclopentasiloxane
CAS	541-02-6
EC	208-764-9
Concentration	40.0 – 60.0%
INCI	Cyclotetrasiloxane
CAS	556-67-2
EC	209-136-7
Concentration	20.0 – 40.0%
INCI	Dimethiconol
CAS	70131-67-8
EC	Exempt
Concentration	10.0 – 25.0%

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**SECTION 4 – FIRST AID MEASURES**

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<b>4.1 Description of First Aid Measures</b>	
Eye:	Immediately flush with water for 15 minutes.
Skin:	No first aid should be needed.
Inhalation:	Remove to the fresh air. Get medical attention if ill effects persist.
Oral:	No first aid should be needed.
Notes to Physician:	Treat according to person's condition and specifics of exposure.
<b>4.2 Most important Symptoms and Effects</b>	No information available
<b>4.3 Indication of any immediate Medical Attention and special Treatment needed</b>	No information available.

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**SECTION 5 – FIRE FIGHTING MEASURES**

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<b>5.1 Flash Point</b>	132.8 °F / 56 °C (Pensky-Martens Closed Cup)
<b>5.2 Auto Ignition Temperature</b>	752 °C / 400 °C
<b>5.3 Flammability Limits in Air</b>	Lower limit: 0.75 % Upper Limit: 7.40 %



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- 5.4 Extinguishing Media** On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide, dry chemical or water spray. Water can be used to cool fire exposed containers.
- 5.5 Fire Fighting Measures** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Determine the need to evacuate or isolate the area according to your local emergency plan.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

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- 6.1 Unusual Fire Hazards** Static electricity will accumulate and may ignite vapors. Prevent a fire hazard by bonding and grounding or inert gas purge.
- 6.2 Methods and Material for Containment and Cleaning Up** Remove possible ignition sources. 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 materials 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 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. Section 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

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**SECTION 7 – HANDLING AND STORAGE**

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- 7.1 Precautions for Safe Handling** Use with adequate ventilation. Avoid eye contact. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazards by bonding and grounding on inert gas purge.
- 7.2 Condition for Safe Storage, including any Incompatibilities** Keep container closed and away from heat, sparks, and flame.



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**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Components Exposure Limits**

CAS Number	Ingredients	Exposure Limits
541026	Decamethylcyclopentasiloxane	TWA 10 ppm
556672	Octamethylcyclotetrasiloxane	TWA 10 ppm

**8.2 Engineering Controls**

Local Ventilation:	Recommended
General Ventilation:	Recommended

**8.3 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:	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 concentration are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

**8.4 Personal Protective Equipment for Spills**

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

**8.5 Precautionary Measures**

Avoid eye contact. Use reasonable care. Note these precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**



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**9.1 Information on basic Physical and Chemical Properties**

Physical Form:	Liquid
Color:	Clear to slightly hazy liquid
Odor:	Characteristic
Specific Gravity @25 °C:	0.955
Viscosity:	6000 mm <sup>2</sup> /s
Freezing/Melting Point:	< 0°C
Boiling Point:	> 175 °C
Vapor Pressure @25:	0.12 kPa
Vapor Density:	Not determined.
Solubility in Water:	0.05 mg/L
pH:	Not determined.
Volatile Content:	Not determined.
Flash Point:	132.8 °F / 56 °C (Pensky-Martens Closed Cup)
Auto Ignition Temperature:	752 °F / 400 °C
Flammability Limits in Air:	0.75% Upper Limit: 7.40%

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

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**SECTION 10 – STABILITY AND REACTIVITY**

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<b>10.1 Chemical Stability</b>	Stable
<b>10.2 Hazardous Polymerization</b>	Will not occur
<b>10.3 Conditions to Avoid</b>	None
<b>10.4 Incompatible Materials</b>	Oxidizing material can cause a reaction.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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<b>11.1 Component Toxicology Information</b>	<p>Recent results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. These affects, which have been shown to be rat-specific, occur at the highest exposure dose (700 ppm) only, a level that greatly exceeds typical workplace or consumer exposures. Industrial, commercial, or consumer uses of products containing D4 do not represent a risk to humans.</p> <p>Octamethylcyclotetrasiloxane administrated to rats by inhalation at concentrations of 500 and 700 ppm resulted in statistically significant decreases in the number of pups born and the live litter size in both the first and second generations. Prolonged estrous cycle, and decreased mating and fertility indices were observed following 700 ppm exposure in the second generation only.</p>
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There were also increases in the incidents of deliveries of offspring extending over an unusually long time period (dystocia). Subsequent mode of action work demonstrated the effects on reproduction in female rats is due to delayed ovulation caused by a treatment-related in or blockage of the luteinizing hormone (LH) surge on the day of proestrus. This mode of action is not considered relevant to humans.

Recent results from a 2 year repeated vapour inhalation exposure study to rats of decamethylcyclotetrasiloxane (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 products containing D5 do not represent a risk to humans.

**11.2 Special Hazard Information on Components**

Reproductive Effects

CAS NUMBER	Wt%	Component Name
556-67-2	30.0 – 60.0	Otamethylcyclotetrasiloxane

Evidence of reproductive effects in laboratory animals.

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**SECTION 12 - ECOLOGICAL INFORMATION**

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**12.1 Environmental Fate and Distribution** No data available.

**12.2 Environmental Effects** No data available.

**12.3 Fate and Effects in Waste Water Treatment Plans**  
 No data available.

**12.4 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	>200

Note:

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.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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**13.1 Waste Treatment Methods**



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RCRA Hazard Class (40 CFR 261)                      When a decision is made to discard this material, as received, is it classified as hazardous waste? Yes

Characteristic Waste:

Ignitable:    D001

State or local laws may impose additional regulatory requirements regarding disposal. Call (989) 496-6315, if additional information is required.

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**SECTION 14 – TRANSPORTATION INFORMATION**

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**14.1 DOT Road Shipment Information (49 CFR 172.101)**

Proper Shipping Name:                                  Combustible Liquid, N.O.S.  
Hazard Technical Name:                                Cyclosiloxane  
Hazard Class:    C  
UN/NA Number:                                        NA1993  
Packing Group:                                        III  
Hazard Label(s)                                        None  
Remarks:    Above applies only to containers over 119 gallons or 450 liters.

**14.2 Ocean Shipment (IMDG)**

Proper Shipping Name:                                Flammable Liquid, N.O.S.  
Hazard Technical Name:                                Cyclosiloxane  
Hazard Class:    3  
UN/NA Number:                                        UN 1993  
Packing Group:                                        III  
Hazard Label(s):                                        Flammable liquid

**14.3 Air Shipment (IATA)**

Proper Shipping Name:                                Flammable Liquid, N.O.S.  
Hazard Technical Name:                                Cyclosiloxane  
Hazard Class:    3  
UN/NA Number:                                        UN 1993  
Packing Group:                                        III  
Hazard Label(s):                                        Flammable liquid

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**SECTION 15 – REGULATORY INFORMATION**

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

**15.1 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





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Reactive: NO

**15.2 Section 313 Toxic Chemicals (40 CFR 372)**

Note: None present or none present in regulated quantities.  
Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

**15.3 Supplemental State Compliance Information**

NEW JERSEY:

CAS Number	Ingredients	Wt%
541026	Decamethylcyclopentasiloxane	40.0 – 70.0
556672	Octamethylcyclotetrasiloxane	30.0 – 60.0
70131678	Dimethyl siloxane, hydroxyl-terminated	10.0 – 30.0

PENNSYLVANIA:

CAS Number	Ingredients	Wt%
541026	Decamethylcyclopentasiloxane	40.0 – 70.0
556672	Octamethylcyclotetrasiloxane	30.0 – 60.0
70131678	Dimethyl siloxane, hydroxyl-terminated	10.0 – 30.0

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.

**15.3 TSCA Status**

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

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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.