

## Section 1: Company and Product Identification

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**Product Name:** Cyclomethicone

**INCI Name:** Cyclopentasiloxane *or* Cyclomethicone

**Material Uses:** Active ingredient in cosmetic and personal care applications.

**Restrictions on Use:** Repackaged for cosmetic use only

**Company:** Windy Point Soap Making Supplies Inc.

14, 6125-12th Street SE

Calgary, AB T2H 2K1

587-318-6678

**Emergency Response:** In USA, Canada and North America, 24 hour / 7 day emergency information for our product is provided by the CHEMTREC Emergency Call Center based in the USA.

USA, Canada, Puerto Rico, Virgin Islands

CALL +1 800-424-9300

In case of difficulties or for ships at sea

CALL +1 703-527-3887

In Europe, Middle East, Africa, Asia Pacific, South America

703-527-3887

## Section 2: Hazards Identification

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**Hazard Pictograms:**

**Signal Word:** Warning

**Hazard Classification:** FLAMMABLE LIQUIDS

**Hazard Category:** Category 4

**Hazard Statements:** Combustible liquid

**Precautionary Statements:**

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P280: Wear protective gloves/protective clothing/eye protection/face protection

Response:

P370+378: In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish

Storage:

P403+235: Store in a well ventilated place. Keep cool

Disposal:

P501: Dispose of contents/container in accordance with local/regional/national/international rules.

**Other Hazards:**

None

## Section 3: Composition / Information on Ingredients

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Name	Hazard Category	CAS#	Weight %
Decamethylcyclopentasiloxane	Category 4	541-02-6	>=99.0 - <=100.0%
Dodecamethyl cyclohexasiloxane	Category 4	540-97-6	>=1.0 - <5.0%

**Additional Information:** For full text of H-statements and R-phrases: see SECTION 16

## Section 4: First Aid Measures

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**General Info:** First aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).

**Notable Exposure symptoms:** Prolonged skin contact is essentially nonirritating to the skin. May cause slight temporary eye irritation. For additional information, see Section 11.

**If ingested:** No emergency medical treatment necessary.

**If inhaled:** Move person to fresh air; if effects occur, consult a physician.

**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Skin contact:** Wash off with plenty of water.

## Section 5: Fire Fighting Measures

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**General Info:** Flash Point: Closed Cup 77°C (171°F). Product contains flammable solvents. Direct water spray may spread fire. Isolate any uncompromised product from area if possible. Do not breathe fumes.

### Extinguishing Method /

**Equipment:** Carbon dioxide (CO<sub>2</sub>), dry chemical, foam, halon, water spray (fog). Firefighters should wear self-contained breathing apparatus (SCBA) and full protective equipment. Do not use direct or heavy water stream to fight fire as it may splash burning liquid.

**Hazardous Decomposition Info:** Silicon oxides Carbon oxides

## Section 6: Accidental Release Measures

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### Personal precautions, protective

**equipment and procedures:** Remove all sources of ignition. Use personal protective equipment.

**Environmental Precautions:** Avoid discharge into the environment

### Containment Equipment and

**Procedures:** Avoid release to the environment

**Cleanup Procedures:** Pick up with absorbent material and collect for disposal. Refer to Section 8 for protective equipment and Section 13 for disposal considerations.

## Section 7: Handling and Storage

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**Safe Handling Precautions:** Keep container tightly closed. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

**Recommendations for Storage:** Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

**Specific End Use(s):** Active ingredient in cosmetic and personal care applications.

## Section 8: Exposure Control / Personal Protection

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**Control Parameters:** Decamethylcyclopentasiloxane - Regulation: US WEEL. Listing: TWA  
Value: 10 ppm.

### General / Engineering

**Controls:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines.

**Eye/face protection:** Chemical goggles with side splash protection recommended. An eye wash facility should be available in the work area.

**Hand Protection:** Chemical protective gloves

**Body Protection:** None required under normal conditions of use

**Respiratory Protection:** Respiratory equipment should be selected based on exposure limit requirements. If discomfort is experienced, use an approved air-purifying respirator.

**Thermal Hazards:** None required under normal conditions of use

**Other:** Observe good chemical hygiene practices, washing exposed areas of the skin several times daily. Launder contaminated clothing before re-use.

### Environmental Exposure

**Controls:** Non-hazardous but avoid direct releases to the environment.

### Section 9: Physical and Chemical Properties

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**Physical State:** Liquid

**Appearance:** Clear

**Color:** Colorless

**Odor:** Characteristic

**Odor Threshold:** No data available

**pH:** No data available

**Melting Point:** No data available

**Freezing Point:** No data available

**Boiling Point:** 211°C (412°C)

**Flash Point (CC):** 77°C (171°F)

**Auto-ignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Evaporation Rate:** No data available

**Vapor Pressure:** No data available

**Explosive Limits:** No data available

**Vapor Density:** No data available

**Specific Gravity:** 0.95

**Water Solubility:** No data available

**Viscosity (cP):** Kinematic 3.8 cSt at 25°C (77°F)

**Explosion Properties:** Not explosive

**Oxidizing Properties:** Not classified as oxidizing

**Partition coefficient:** Not available

**Other information:** None available

### Section 10: Stability and Reactivity

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**Reactivity:** Not classified as a reactivity hazard.

**Chemical Stability:** Stable under normal use conditions.

**Possibility of Hazardous**

**Reactions:** Not classified as a reactivity hazard

**Conditions to Avoid:** Gross bacterial contamination

**Incompatible Materials:** Concentrated nitric or sulfuric acid, strong oxidizing agents

**Hazardous Decomposition**

**Products:** Burning can produce smoke, CO, CO<sub>2</sub>, ammonia and other products of incomplete combustion

## Section 11: Toxicological Information

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**Acute Toxicity:** Acute oral toxicity: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.  
As a Product: Single dose oral LD50 has not been determined. LD50, Rat, > 34,600 mg/kg estimated.

Acute dermal toxicity:  
Prolonged skin contact is unlikely to result in absorption of harmful amounts.  
As a product: The dermal LD50 has not been determined.  
For this family of materials: LD50, Rabbit, > 2,000 mg/kg.

Acute inhalation toxicity: No adverse effects are anticipated from inhalation. Excessive exposure may cause irritation to upper respiratory tract (nose and throat).  
As a product: The LC50 has not been determined.

**Irritation:** *in vitro* dermal testing of similar materials show product to be non-irritating.

**Corrosivity:** This is not a corrosive product.

**Sensitization:** Did not cause allergic skin reactions when tested in humans.

**Repeated Dose Toxicity:** This material contains dodecamethyl cyclohexasiloxane (D6). D6 was administered to rats by whole body inhalation to 0, 1, 10 and 30 ppm for a period of 13-14 weeks. An increased incidence and severity of inflammation and hyperplasia was observed in the nasal region in the 10 and 30 ppm dose groups. These observations are consistent with mucosal irritant, however there was litter or incomplete recovery after the 28-day recovery period. The relevance of these findings to humans is unknown.

**Carcinogenicity:** Results from a 2 year repeated vapor inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. This finding occurred at the highest exposure dose (160 ppm) only. Studies to date have not demonstrated if this effect occurs through the pathway that is relevant to humans.

**Mutagenicity:** For this family of materials: In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**Toxicity for reproduction:** For this family of materials: In animal studies, did not interfere with reproduction.

**Additional Information:** All data listed in this section is based on testing of similar materials.

## Section 12: Ecological Information

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**Toxicity:** Acute toxicity to fish: No toxicity at the limit of solubility.  
Decamethylcyclopentasiloxane - Not expected to be acutely toxic to aquatic organisms.  
LC50, Oncorhynchus mykiss (rainbow trout), 96 Hr, > 16 µg/l, OECD Test Guideline 204 or Equivalent.

Chronic Toxicity to fish: No toxicity at the limit of solubility.  
Oncorhynchus mykiss (rainbow trout): LC50 , 14 d, > 16 mg/l. NOEC: 45 d, >= 0.017 mg/l, 90 d, >= 0.014 mg/l.

**Aquatic Toxicity:** No toxicity at the limit of solubility. ErC50, Pseudokirchneriella subcapitata (green algae), 96 hr, growth rate, > 0.012 mg/l. NOEC, Psuedokirchneriella (green algae), 96 hr, growth rate, 0.012 mg/l.

**Persistence and Degradability:** Decamethylcyclopentasiloxane: Biodegradation: 0.14%, 28 days, OECD Test Guideline 310.

Dodecamethyl cyclohexasiloxane: Not considered to be readily biodegradable, OECD test guidelines; however, these results do not mean that the material is not biodegradable under environmental conditions. Biodegradation: 57%, OECD Test Guideline 301B.

**Bioaccumulative Potential:** Decamethylcyclopentasiloxane: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Log Pow: 5.2 measured.

Dodecamethyl cyclohexasiloxane: Bioconcentration is low (BCF less than 100 or log Pow greater than 7). Log Pow: 8.87.

**Mobility in Soil:** Decamethylcyclopentasiloxane: Expected to be relatively immobile in soil (Koc > 5000).

Dodecamethyl cyclohexasiloxane: Potential for mobility in soil is very high (Koc between 0 and 50).

### Results of PBT and vPvB

**Assessment:** No data available

**Other Adverse Effects:** None known

## Section 13: Disposal Information

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**Product disposal:** Dispose of product in accordance with local, regional, and national regulations.

**Container disposal:** Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Do not re-use containers for any purpose.

**Other considerations:** No further information.

## Section 14: Transport Information

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**General Information:** This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Non-bulk quantities are not regulated.

	US DOT	EU Land Transport (ADR/RID/AND)	Sea Transport (IMDG)	Air Transport (ICAO/IATA)
<b>UN Number:</b>	NA1993	Not regulated	Not regulated	Not regulated
<b>UN Proper Shipping Name:</b>	Combustible liquid, n.o.s.	Not regulated	Not regulated	Not regulated
<b>Transport Hazard Class(es):</b>	CBL	Not applicable	Not applicable	Not applicable
<b>Packing Group:</b>	III	Not applicable	Not applicable	Not applicable
<b>Environmental Hazards:</b>	Not applicable	Not applicable	Not applicable	Not applicable
<b>Special Precautions for User:</b>	None	None	None	None
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b>	Not applicable	Not applicable	Not applicable	Not applicable

**Additional Information:** UN Proper Shipping Name US DOT full text: Combustible liquid, n.o.s. (Decamethylcyclopentasiloxane, Dodecamethyl cyclohexasiloxane).

## Section 15: Regulatory Information

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**SARA 311/312:** Flammable (gases, aerosols, liquids, or solids).

**SARA 313:** This material does not contain any chemical components with the known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**CERCLA Section 103:** This material does not contain any components with a CERCLA RQ.

**Pennsylvania Right-to-Know:** The following chemicals are listed because of the additional requirements of Pennsylvania law:

<u>Components</u>	<u>CASRN</u>
Decamethylcyclopentasiloxane	541-02-6
Dimethylsiloxanes (D6+)	69430-24-6
Dodecamethyl cyclohexasiloxane	540-97-6

**California Prop. 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**US TSCA Inventory (TSCA):** All components of this product are in compliance with the inventory listing requirements of the (TSCA) Chemical Substance Inventory.

### Section 16: Other Information

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**HMIS Rating:** 0-2-0

**NPFA Rating:** 0-2-0

**List of Relevant R-phrases**

**(number and full text):** Not applicable

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