

SAFETY DATA SHEET

ISSUANCE DATE: March 3, 2015

SDS # 99-015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

L'Oreal USA Products, Inc.
111 Terminal Avenue
Clark, NJ 07066

L'Oreal Canada
4895 rue Hickmore
Ville St-Laurent, H4Y 1K5
Canada

Emergency Telephone Number:

1-800-535-5053 (International: 352-323-3500)
In Canada – 1-613-996-6666 (Canutec) (*666 cellular)

For further information:

1-732-499-2741

Poison Control Number: 412-390-3326


Product Name: Atomized Cosmetic Products (non-aerosol)
Containing Cyclopentasiloxane and Ethyl Alcohol
Packing Group II

Recommendations on use: Personal care product to be applied as a styling agent to hair for cosmetic enhancement as indicated with product instructions.

Restrictions on use: Avoid fire, flame, heat and other sources of ignition. For external use only. Avoid spraying into eyes. Use only as directed. Liquid dispensed from the container is considered flammable until dry.

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: DANGER

Symbol	Classification	Hazard Statement	Prevention Statements
	Flammable Liquids Category 2	Highly flammable liquid and vapor	<ul style="list-style-type: none"> • Keep away from heat, sparks, open flames and hot surfaces. No smoking. • Keep container tightly closed. • Ground/bond container and receiving equipment. • Use explosion-proof electrical, ventilating, lighting, manufacturing and packaging equipment. • Use only non-sparking tools. • Take precautionary measures against static discharge. • Wear nitrile or vinyl gloves. Wear eye protection appropriate for the manufacturing operation being performed (goggles or face shield).

This material is considered hazardous by the US Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200)

General Precautionary Statements: Keep out of reach of children. Read label before use. Direct eye contact may cause watering, stinging or itching eyes. Possible skin dryness/irritation if over-exposed.

Hazards Not Otherwise Classified: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Only hazardous constituents associated with the product are listed below

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Cyclopentasiloxane	541-02-6	≤ 92.0%
Ethyl Alcohol	64-17-5	≤ 10.0%
Ingredients listed below may be contained in products:		
Phenyl Trimethicone	70131-69-0 / 73559-47-4	≤ 5.0%

SECTION 4: FIRST AID MEASURES

Response Statements:

IF IN EYES: If eye irritation occurs: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing until material is sufficiently removed from the eye. **If eye irritation persists:** Get medical advice/attention if irritation or other symptoms occur.

IF ON SKIN: If skin irritation occurs: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. **If skin irritation persists:** Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep in a position comfortable for breathing. Call a Poison Control Center if you feel unwell.

IF SWALLOWED: Do not induce vomiting. Never give anything by mouth to an unconscious individual. Consult a physician or Poison Control Center immediately.

SYMPTOMS/EFFECTS: Direct eye contact may cause watering, stinging or itching eyes. Over-exposure may cause skin dryness or slight irritation.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Consult product labeling. No special advice.

SECTION 5: FIRE-FIGHTING MEASURES

Notes for Non-Emergency Personnel:

EXTINGUISHING MEDIA: In case of fire use carbon dioxide, dry chemical and/or foam for extinction. Water spray may be used to soak other materials surrounding the product, to prevent the spread of the fire. Selection of a fire extinguisher should also be appropriate to address the location of the fire and equipment involved. Please review the tools available at your location to ensure proper availability of equipment.

Notes for those trained to participate in an emergency:

SPECIAL FIRE FIGHTING PROCEDURES: Treat as flammable liquid. Follow National Fire Protection Association Guidelines or local guidelines appropriate for emergency response. Minimize all sources of static electricity.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Observe all appropriate precautions for handling flammable materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal degradation may produce oxides of carbon, silicone, hydrocarbons, and/or derivatives.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Notes for non-emergency personnel:

Consult trained response personnel for clean-up of large spills or locations where providing preliminary control of the chemical release is hazardous. Hazardous locations include areas where ignition sources cannot be controlled. Isolate the area and deny entry to unnecessary and unprotected personnel. Sections 2, 5, 7 and 8 of this document should be consulted upon use of material, to become knowledgeable of the material's hazards and how to control risks associated with handling flammable liquids.

If the location is not hazardous and only a small amount of material is released, control the spill using absorbent pads while wearing the protective equipment as noted below. Clean the area with detergent and water. Prohibit discharge to drains, soil, surface and ground waters. Dispose in accordance with Section 13 of this document.

PERSONAL PROTECTIVE EQUIPMENT: Nitrile or vinyl gloves, safety glasses/goggles, protective clothing (e.g. apron) may be required for clean-up of large spills. Respiratory protection is typically not necessary, but may be used depending upon the size of the spill and occupational exposure limits. Respiratory protection may include the use of organic vapor cartridges. Refer to Section 8 for additional information.

Notes for those trained to participate in an emergency:

ACCIDENTAL RELEASE MEASURES: Eliminate all sources of ignition. Dike and contain the free liquid and absorb on vermiculite or spill pillows/pads. Place spent absorbents in UN specification drums for disposal. All precautions associated with controlling a flammable liquid should be employed during clean-up. Wash area completely with water. Take care to avoid contact with wet surfaces or walkways that may become slick when residue is present. Prohibit discharge to drains, soil, surface and ground waters.

Recommendations for personal protective equipment selection are noted above. Non-sparking tools should be utilized in all clean-up associated with flammable liquids. Dispose in accordance with section 13 of this document.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Do not eat, drink or smoke while working with hazardous materials. Employees should be advised to wear appropriate protective equipment in the manufacturing environment. See section 8 of this document for protective equipment selection. Do not expose to heat or flame. All manufacturing should be performed indoors, in an enclosed environment free from uncontrolled ignition sources. Employees should be advised not to handle flammable products in close proximity to incompatible materials. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

Maintain a clean work environment which includes use of properly functioning containers, proper housekeeping practices.

CONDITIONS FOR SAFE STORAGE:

Storage precautions for unpackaged product (manufacturing environment): Store in a well-ventilated place and keep cool. Keep containers closed when not in use. Minimize inventory. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Appropriate fire suppression and detection equipment should be utilized. Store on spill pallets or other locations where spill containment will be easily accessible.

Storage precautions for packaged product: See consumer packaging.

Keep away from open drains and access to the environment.

Incompatible materials: Oxidizers, acids, bases. Store away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS: These criteria have been published by the referenced authority to establish exposure limits in the work environment. Employee work areas should be monitored to ensure that permissible limits are not exceeded during the work day. These references do not coincide with product use. These references are meant to be in association with the manufacturing environment.

OCCUPATIONAL EXPOSURE VALUES:

Component Name (CAS-No.)	Reference	TWA		STEL/CEILING	
		ppm	mg/m ³	ppm	mg/m ³
Ethyl Alcohol (64-17-5)	OSHA PEL	1,000	1,900	--	--
	ACGIH TLV	--	--	1,000	1,880
	NIOSH REL	1,000	1,900	--	--
Cyclopentasiloxane (541-02-6)	OSHA PEL	--	--	--	--
	ACGIH TLV	--	--	--	--
	NIOSH REL	--	--	--	--
	DOW CORNING	10	--	--	--

No occupational exposure values have been published for other constituents noted in Section 3.

WORK HYGIENIC PRACTICES: Ensure all work surfaces are maintained, to prevent contamination.

ENGINEERING CONTROLS: None required for product use. For handling large quantities of material, such as in the manufacturing of product, ventilation should be utilized. This ventilation should be compatible with the control of flammable materials. Exhaust ventilation should be utilized to maintain air concentrations of material below the occupational exposure guidelines noted above.

Local exhaust ventilation is not typically required for product use. For handling large quantities of material, such as in the manufacturing of product -- Local Exhaust: Explosion proof. Mechanical (general): Explosion proof.

PERSONAL PROTECTIVE EQUIPMENT: Consistent with good hygiene practices, personal protective equipment (PPE) should be used in conjunction with other control measures including engineering controls, ventilation and isolation. See also Section 5 of this document for PPE advice, in the event of an emergency.

Eye/Face Protection (Non-Emergency): None required for product use. For handling of large quantities of liquid material, safety glasses with side shields/goggles are recommended.

Skin Protection (Non-Emergency): None required for product use. For handling large quantities of material, such as in product manufacturing, nitrile or vinyl gloves should be considered for use. Tyvek clothing may also be suitable for handling large quantities of material in the manufacturing environment.

Respiratory Protection (Non-Emergency): Respiratory protection is not required for product use. For manufacturing of product, respiratory protection may be considered. Ensure that the respirator meets current local occupational health and safety standards. Organic vapor cartridges should be utilized with filtering respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear to tinted liquid
ODOR:	Lightly fragranced
ODOR THRESHOLD:	Not Available
pH:	Not Applicable (Non-Aqueous)

MELTING/FREEZING POINT:	F: Not Available C: Not Available
BOILING POINT:	F: 173 (as ethanol) C: 78.3 (as ethanol)
FLASH POINT:	F: <73 C: <23 METHOD USED: Closed cup
EVAPORATION RATE:	> 1 (Butyl acetate = 1)
FLAMMABILITY:	Not Applicable to Liquids
FLAMMABLE LIMITS IN AIR:	ETHYL ALCOHOL: 19% UEL; 3.3% LEL
VAPOR PRESSURE (mmHg):	@ 70F: 44 (as ethanol) @ 21 C: 44 (as ethanol)
VAPOR DENSITY (AIR = 1):	@ 70F: >1 @ 21 C: > 1
RELATIVE DENSITY (H2O = 1):	0.85 – 0.96
SOLUBILITY IN WATER:	Not Available
PARTITION COEFFICIENT:	Not Available
AUTOIGNITION TEMPERATURE:	Not Available
DECOMPOSITION TEMPERATURE:	Not Available
VISCOSITY:	Free flowing liquid

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Material is not considered reactive under typical handling and storage conditions.

STABILITY: Product is stable.

POSSIBILITY OF HAZARDOUS REACTIONS: None known. Hazardous polymerization is not expected to occur.

CONDITIONS TO AVOID: Heat, fire, flame and other sources of ignition.

INCOMPATIBILITY (MATERIAL TO AVOID): Oxidizers, acids, and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal degradation may produce oxides of carbon, silicone, hydrocarbons, and/or derivatives.

SECTION 11: TOXICOLOGICAL INFORMATION

Where information is not listed specifically for constituents, published information was not available.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS:

SKIN CORROSION/IRRITATION: Over-exposure may cause skin dryness or slight irritation.

SERIOUS EYE DAMAGE/IRRITATION: Direct eye contact may cause watering, stinging or itching eyes.

RESPIRATORY/SKIN SENSITIZATION: None expected

INGESTION: Harmful if swallowed

INHALATION: None expected

ROUTES OF EXPOSURE: Inhalation, eyes, skin, ingestion

SYMPTOMS: Direct eye contact may cause watering, stinging or itching eyes. Over-exposure may cause skin dryness or slight irritation.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

ACUTE TOXICOLOGY DATA FOR COMPONENTS

Material	Route	Species	Test Results
Cyclopentasiloxane	Oral LD ₅₀	Rat (OECD 401 eq.)	> 5,000 mg/kg bw
Cyclopentasiloxane	Dermal LD ₅₀	Rabbit (OECD 402 eq.)	> 2,000 mg/kg bw
Cyclopentasiloxane	LC ₅₀ (4 hr)	Rat (OECD 403)	8.67 mg/L air
Ethyl Alcohol	Oral LD ₅₀	Rat	> 6,200 mg/kg bw
Ethyl Alcohol	Dermal LD _{Lo}	Rabbit	> 20,000 mg/kg bw
Ethyl Alcohol	LC ₅₀ (4 hr)	Rat	> 8,000 mg/L
Phenyl Trimethicone	Oral LD ₅₀	Rat	> 5,000 mg/kg bw
Phenyl Trimethicone	Dermal LD ₅₀	Rabbit (OECD 402)	> 2,000 mg/kg bw
Phenyl Trimethicone	LC ₅₀ (4 hr)	Rat (OECD 403) Aerosol	0.467 mg/L air

Skin Corrosion/Irritation:

Cyclopentasiloxane: Not Irritating (Rabbit, OECD 404 eq.)
Ethyl Alcohol: Not Irritating (Rabbit, OECD 404)
Phenyl Trimethicone: Not Irritating (Rabbit, OECD 404)

Serious Eye Damage/Irritation:

Cyclopentasiloxane: Not Irritating (Rabbit, OECD 405 eq.)
Ethyl Alcohol: Not Irritating (25%)/ Mildly Irritating (50%)/ Irritating (100%) (Rabbit, OECD 405)
Phenyl Trimethicone: Not Irritating (Rabbit, OECD 405)

Respiratory Irritation:

Ethyl Alcohol: 27,314 ppm (Mouse) Highly Irritating

Skin Sensitization:

Cyclopentasiloxane: Not sensitizing (Guinea Pig, Buehler Test)
Ethyl Alcohol: Not sensitizing (Guinea Pig)
Phenyl Trimethicone: Not sensitizing (Guinea Pig, OECD 406)

CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:

NOAEL (Cyclopentasiloxane, oral): ≥ 1,600 mg/kg bw/d (14 d) (Rat, OECD 407 eq.)
 NOAEL (Cyclopentasiloxane, dermal): 1600 mg/kg bw/d (28 d) (Rat, OECD 410 eq.)
 NOEC (Cyclopentasiloxane, inhalation): 75 ppm (28 d) – Liver Effect (Rat, OECD 412)
 NOAEC (Cyclopentasiloxane, inhalation): 160 ppm (28 d) – Systemic (Rat, OECD 412)
 NOAEL (Ethyl Alcohol, oral): >2% (2400 mg/kg); Rat
 LOAEL (Ethyl Alcohol, oral): 3% (3600 mg/kg); Rat
 NOAEL (Phenyl Trimethicone, oral): 1,000 mg/kg bw/day (Rat, OECD 408)

CARCINOGENICITY:

Component Name (CAS-No.)	OSHA	ACGIH	NTP	IARC
Ethyl Alcohol (64-17-5)	--	TLV-A3	--	--

Notes:

ACGIH TLV-A3 – Confirmed Animal Carcinogen with Unknown Relevance to Humans

MUTAGENICITY:

Cyclopentasiloxane:
Ethyl Alcohol:

A variety of *in vitro* and *in vivo* tests have produced negative results. Classified as mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May affect genetic material (mutagenic).

Phenyl Trimethicone:

A variety of *in vitro* tests have produced negative results.

REPRODUCTIVE TOXICITY:

Cyclopentasiloxane:
Ethyl Alcohol:

NOAEL: ≥ 160 ppm (Vapor) (Rat, EPA OPPTS 870.3800)
Effects on the female reproductive system can include menstrual problems, altered sexual behavior, infertility, altered puberty onset, altered length of pregnancy, lactation problems, altered menopause onset and pregnancy outcome. Effects on the male reproductive system can include altered sexual behavior, altered fertility and problems with sperm shape or count.

DEVELOPMENTAL TOXICITY/TERATOGENICITY:

Ethyl Alcohol:

Ethanol has been connected to adverse reproductive effects and birth defects (teratogenic), based on moderate to heavy consumption. Human: passes through the placenta, excreted in maternal milk. Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute fetal alcohol syndrome. These include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders and small size head.

Phenyl Trimethicone:

NOAEL: $\geq 1,000$ mg/kg bw/d (Rat, OECD 471 eq.)

SECTION 12: ECOLOGICAL INFORMATION

Contact with the environment should be avoided. Spills and leaks should be immediately cleaned up and removed. All precautions should be taken to prevent contact with the environment. Published information regarding ingredients listed on this document area found below; where data is not listed, documentation was unavailable.

ACUTE AND PROLONGED TOXICITY TO FISH

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Cyclopentasiloxane	LC ₅₀ (OECD 204)	≥ 16 µg/L	Oncorhynchus mykiss	96 h
Ethyl Alcohol	LC ₅₀	12.9 - 15.3g/L	Pimephales promelas	96 h

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Cyclopentasiloxane	EC ₅₀ (OECD 202)	≥ 2.9 µg/L	Daphnia Magna	48 h
Ethyl Alcohol	EC ₅₀	5,012 mg/L	Ceriodaphnia Dubia	48 h

TOXICITY TO AQUATIC PLANTS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Cyclopentasiloxane	EC ₅₀ (OECD 201)	≥ 12 µg/L	Pseudokirchneriella subcapitata	96 h
Ethyl Alcohol	EC ₅₀	675 mg/L	Chlorella Vulgaris	4 d

TOXICITY TO MICROORGANISMS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Cyclopentasiloxane	EC ₅₀ (EU Method C.11)	$> 2,000$ mg/L	Activated Sludge	3 h
Phenyl Trimethicone	EC ₅₀ (OECD 209)	$\geq 1,000$ mg/L	Activated Sludge	3 h

PERSISTENCY AND DEGRADABILITY:

Cyclopentasiloxane:
Ethyl Alcohol:

Not Readily Biodegradable – OECD 310 – 0.14% (28d)
Readily Biodegradable – OECD 301 B – 97% (28d)

BIOACCUMULATIVE POTENTIAL:

Cyclopentasiloxane: $BCF_{ss} = 7,060$ (OECD 305, Pimephales promelas); log Pow: 8.03 @ 25.3°C (OECD 123)
Potential to bioaccumulate

Ethanol: $\log BCF_{(calculated)} = 0.5$ (BCFWIN v2.15) – Not likely to bioaccumulate

SECTION 13: DISPOSAL CONSIDERATIONS

Those responsible for the performance of disposal, recycling or reclamation activities should refer to Section 8 of this document for advice on personal protective equipment and exposure controls.

WASTE DISPOSAL CONTAINERS: Appropriate US DOT containers should be utilized which may include fiberboard boxes for products and metal or plastic drums for liquids. These containers should meet the packaging specifications required for DOT compliance.

WASTE DISPOSAL METHOD: This product is ignitable (D001) RCRA hazardous wastes when intended for disposal. Controlled incineration at a hazardous waste facility is the recommended technology for treatment and disposal. This material must not be disposed through sewage.

RCRA HAZARD CLASS: D001

Follow all local governmental requirements intended for disposal.

SECTION 14: TRANSPORT INFORMATION

North American Ground Transportation

- **IN CONSUMER PACKAGING:** Limited Quantity/Consumer Commodity (≤ 1 L)
UN ID Number: UN 1266
Proper Shipping Name: Perfumery products
Hazard Class: 3
Packing Group: II
Label Statements: Exempt – Limited Quantity Marking Only
- **OTHER THAN CONSUMER PACKAGING:**
UN ID Number: UN 1266
Proper Shipping Name: Perfumery products
Hazard Class: 3
Packing Group: II
Label Statements: Flammable Liquid (Class 3)

Transport Via Water

- **IN CONSUMER PACKAGING:** Limited Quantity (≤ 5 L)
UN ID Number: UN 1266
Proper Shipping Name: Perfumery products
Hazard Class: 3
Packing Group: II
Label Statements: Exempt – Limited Quantity Marking Only
- **OTHER THAN CONSUMER PACKAGING:**
UN ID Number: UN 1266
Proper Shipping Name: Perfumery products
Hazard Class: 3
Packing Group: II
Label Statements: Flammable Liquid (Class 3)

Transport Via Air (Domestic/International)

- **IN CONSUMER PACKAGING:** Limited Quantity – ID 8000, Consumer Commodity (≤ 0.5 L)
UN ID Number: ID 8000
Proper Shipping Name: Consumer Commodity
Hazard Class: 9
Packing Group: N/A
Label Statements: Miscellaneous – Dangerous Goods & Limited Quantity Marking
- **OTHER THAN CONSUMER PACKAGING:**
UN ID Number: UN 1266
Proper Shipping Name: Perfumery products
Hazard Class: 3
Packing Group: II
Label Statements: Flammable Liquid (Class 3)

Please be aware of carrier transport variations before shipping hazardous materials.

SECTION 15: REGULATORY INFORMATION

National Fire Protection Association Codes: Health: 1 Fire: 3 Reactivity: 0 Other: None

Workplace Hazardous Materials Identification System: Class B Flammable Material

This regulatory information represents the product, in its consumer packaging.

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: This document replaces the version dated February 6, 2006 and all previous versions of safety data sheets related to this product.

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