

**PUREOLOGY MSDS PRODUCT CLASSIFICATION**

Product Category	Product	MSDS
Conditioners - Treatments	Colourists' Solution Anti Drying PreTreatment	NON-HAZ
	Colourists' Solution Fiber Integrity Spray	09-055
	Dandruff Scalp Cure Condition	NON-HAZ
	Essential Repair Colour Max	09-055
	Essential Repair Condition	NON-HAZ
	Essential Repair Instant Repair Leave-In Hair Condition	NON-HAZ
	Essential Repair Restorative Hair Masque	NON-HAZ
	Essential Repair Split End Correcting Treatment	NON-HAZ
	Hydra Cure Intense Moisture Hair Masque	NON-HAZ
	Hydrate Condition	NON-HAZ
	Hydrate Hydra Whip	NON-HAZ
	Hydrate Light Condition	NON-HAZ
	Nano Works Condition	NON-HAZ
	Nano Works Luxury Hair Masque	NON-HAZ
	Nano Works Shine Luxe	NON-HAZ
	Perfect 4 Platinum Hair Condition	NON-HAZ
	Perfect 4 Platinum Miracle Filler	NON-HAZ
	Perfect 4 Platinum Reconstructor Repair	NON-HAZ
	Pure Volume Blow Dry Amplifier	NON-HAZ
	Pure Volume Condition	NON-HAZ
	Pure Volume Thickening Mist	NON-HAZ
	Shine Max Shining Smoother	99-015
	Super Smooth Condition	NON-HAZ
	Super Smooth Hot Iron Protection	99-021
	Super Smooth Relaxing Hair Masque	99-001
	Super Smooth Relaxing Serum	99-001
	Super Smooth Smoothing Cream	NON-HAZ
	Super Smooth Smoothing Elixir	99-001
	Super Straight Condition	NON-HAZ
	Super Straight Relaxing Serum	NON-HAZ
Shampoos	Colourists' Solution Neutralizing Colour Sealer	99-009
	Dandruff Scalp Cure Shampoo	99-009
	Essential Repair Shampoo	99-009
	Hydrate Shampoo	99-009
	Nano Works Shampoo	99-009
	Pure Volume Shampoo	99-009
	Purify Shampoo	99-009
	Super Smooth Shampoo	99-009
	Super Straight Shampoo	99-009
Styling Products	Colour Stylist Silk Bodifier Volumizing Mousse	99-011
	Colour Stylist Antibreakage Twist Shine-Texturizer	NON-HAZ
	Colour Stylist Illuminating Curl 24 Hour Shaping Lotion	NON-HAZ
	Dry Shine Hair Styler	NON-HAZ
	Glossing Mist	99-021
	Hold Fast Hard Hold Gel	NON-HAZ
	In Charge Flexible Styling Spray	99-012
	In Charge Plus Firm Finishing Spray	99-012
	Nano Glaze Styling Hair Creme	NON-HAZ
	Nano Wax	NON-HAZ
	Perfect 4 Platinum Shampoo	99-009
	Power Dressing Body Hold Hair Styler	NON-HAZ
	Real Curl Define Creme	NON-HAZ
	Root Lift Spray Hair Mousse	99-011
	Styling Lotion	NON-HAZ

PUREOLOGY MSDS PRODUCT CLASSIFICATION		
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Product Category	Product	MSDS
	Texture Twist Reshaping Hair Styler	NON-HAZ

# Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements

U.S. Department of Labor

#99-001

Occupation Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

## IDENTITY

Products Containing Semi-Volatile or  
Emulsified Silicones

*Note: Blank spaces are not permitted. If any item is not applicable, or no  
information is available, the space must be marked to indicate that.*

## Section I

Manufacturer's Name L'Oreal USA Products, Inc.	Emergency Telephone Number (800) 535-5053 (Int'l 352-323-3500)
Address (Number, Street, City, State, and ZIP Code) 111 Terminal Avenue  Clark, NJ 07066	Telephone Number For Information (732) 499-2746
	Date Prepared February 6, 2006 (replaces 10-18-04)
	Signature of Preparer (optional) C. Jennings

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity;Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Cyclomethicone	None			≤60%
Cyclopentasiloxane	None			≤90%
Cyclohexasiloxane	None			≤60%
Dimethicone	None			<10%
Dimethicone Copolyol	None			<5%

## Section III - Physical/Chemical Characteristics

Boiling Point (Liquids)	140-200 F	Specific Gravity (H2O = 1)	~1
Vapor Pressure (mm Hg)	N/A	Melting Point (Solids)	125-145°F
Vapor Density (AIR = 1)	>1	Evaporation Rate (Butyl Acetate = 1)	>1

Solubility in Water  
Insoluble

### Appearance and Odor

1. White to off-white cream/lotion with a pleasant odor. 2. Semi-viscous clear to translucent liquid with a faint odor. 3. Silicone containing antiperspirant/deodorant sticks, lipsticks, and eyeliners.

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) 141°F - 200 F (closed cup)	Flammable Limits Cyclomethicone	LEL 0.5%	UEL 8.0%
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### Extinguishing Media

Carbon dioxide, dry chemical, foam, and/or water spray.

### Special Fire Fighting Procedures

Fires involving bulk product may be extinguished with carbon dioxide, dry chemical, and/or foam. Water spray may be used to soak corrugated shipping containers of finished product if involved in a fire.

### Unusual Fire and Explosion Hazards

None; however, observe usual precautions for handling of combustible materials. For manufacturing, minimize airborne vapor levels through engineering controls.

**Section V - Reactivity Data**

#99-001

Stability	Unstable		Conditions to Avoid	Avoid heat, fire, and other sources of ignition.
	Stable	X		

## Incompatibility (Materials to Avoid)

Oxidizing agents and nitric acid.

## Hazardous Decomposition or Byproducts

Silicon dioxide, carbon monoxide, carbon dioxide.

Hazardous	May Occur		Conditions to Avoid	None known.
	Polymerization	Will Not Occur		

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Not likely.

## Health Hazards (Acute and Chronic)

May cause eye irritation. Although product is non-toxic, ingestion of large quantities may produce temporary gastrointestinal disturbance and diarrhea. No adverse effects would be expected following dermal exposure.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

## Signs and Symptoms of Exposure

Possible eye irritation; temporary gastrointestinal disturbance and diarrhea.

## Medical Conditions Generally Aggravated by Exposure

None known.

## Emergency and First Aid Procedure

If in eyes, flush with plenty of water for at least 15 minutes. Get medical attention if irritation occurs. If swallowed, drink one or two glasses of water or milk and consult a physician. If on skin, wash with soap and water.

**Section VII - Precautions for Safe Handling and Use**

## Steps to be Taken in Case Material is Released or Spilled

Eliminate all sources of ignition. Dike and contain the free liquid, if any, and absorb on vermiculite, spill pillows, or other absorbants. Containerize spent absorbants in suitable containers for disposal. Wash spill area with detergent solution as necessary.

## Waste Disposal Method

Products containing semi-volatile or emulsified silicones are not regulated as hazardous wastes when intended for disposal. However, incineration is the recommended method of treatment and disposal for such products.

## Precautions to be Taken in Handling and Storage

Store bulk quantities in a cool, well-ventilated room. Limit quantities on hand to the extent possible. Store away from possible sources of ignition. Observe usual precautions relative to static electricity. Avoid oxidizing agents and nitric acid.

## Other Precautions

For external use only. Use only as directed.

**Section VIII - Control Measures**

For routine manufacturing/filling operations, none generally required. For spills, wear an approved self-contained breathing apparatus.

Ventilation	Local Exhaust	Explosion-Proof	Special
	Mechanical(General)	Explosion-Proof	Other

Protective Gloves

Rubber or plastic gloves for bulk quantities.

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Other Protective Clothing or Equipment

Safety glasses and protective clothing for bulk quantities.

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Work/Hygienic Practices

OSHA hazard classification: Combustible

DOT classification:

Bulk - Combustible Liquids, N.O.S.

(cyclomethicone/cyclopentasiloxane/cyclohexasiloxane)

NA 1993 PG III

Finished Product - Not regulated

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**MATERIAL SAFETY DATA SHEET**  
**MSDS DATE: April 21, 2009**

**MSDS # 99-009**

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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

**Emergency Telephone Number**  
800-535-5053 (International: 352-323-3500)

**For further information:**  
732-499-2741

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**Product Name: Water-Based Shampoos and Body Cleansers**

Recommendations on use: For cleansing of hair and/or body.

**CAUTION:** Avoid contact with eyes and prolonged contact with skin. For external use only. Use only as directed. Keep out of reach of children. Discontinue use if rash, redness, or itching occurs. Bath and shower gel products and body cleansers used in the bath which are labeled "For Adult Use Only" should not be used by children. Products intended for use by children should not be used excessively or for prolonged periods due to possible skin and/or urinary tract irritation.

Refer to product insert or container for additional use warnings.

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**SECTION 2: HAZARDS IDENTIFICATION**

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Colored, transparent or opaque, semi-viscous liquid with a pleasant odor.

May cause eye irritation. Prolonged contact may cause irritation of skin and mucous membranes. May cause gastrointestinal disturbance and diarrhea if ingested.

**OSHA** Eye Irritant; **DOT** Not Regulated; **WHMIS** Eye Irritant; See section fifteen of this document (Regulatory Information).

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

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<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Anionic, cationic, nonionic and/or amphoteric surfactant compounds	Various	<40

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**SECTION 4: FIRST AID MEASURES**

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**EYES:** Immediately flush with luke-warm water for fifteen minutes and get medical attention if irritation persists.

**SKIN:** Immediately flush with luke-warm water and get medical attention if irritation persists. If irritation of the urinary tract should occur following use of a bath product, consult a physician.

**INGESTION:** If swallowed, drink one or two glasses of water or milk, consult a physician.

**INHALATION:** Move to fresh air. If irritation symptoms persist, get medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Most common symptoms include irritating properties to eyes, skin, and/or exposed mucous membranes.



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## SECTION 5: FIRE-FIGHTING MEASURES

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**EXTINGUISHING MEDIA:** Product is not flammable. Selection of a fire extinguisher should be appropriate to address the location of the fire and other materials involved.

**SPECIAL FIRE FIGHTING PROCEDURES:** Not applicable

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Not applicable

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** For small spills, wipe up with paper towels or sponge. Wash area completely with water. For larger quantities, spills should be diked and contained, solidified with vermiculite, spill pillows, or other suitable absorbent. Solidified material should be placed in proper containers for disposal. Take care to avoid contact with wet surfaces or walkways that may become slick when product is present

**PERSONAL PROTECTIVE EQUIPMENT:** Plastic or rubber gloves, eye protection, and apron may be required for clean-up of large spills.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Avoid contact with eyes and prolonged contact with skin (other than areas of application). Do not inhale or ingest.

**OTHER PRECAUTIONS:** None known

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** None required for product use. For handling large quantities of material, such as in the manufacturing of product, ventilation should be utilized to control nuisance odors associated with product fragrance.

**VENTILATION:** Local exhaust ventilation is not typically required for product use, but may be used to reduce nuisance odors associated with product.

**RESPIRATORY PROTECTION:** 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.

**EYE PROTECTION:** None required for product use. For handling large quantities of material, safety glasses with side shields/goggles are recommended.

**SKIN PROTECTION:** None required for product use. For handling large quantities of material, such as in product manufacturing, plastic or rubber gloves should also be considered for use.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None required for product use. Tyvek clothing may also be suitable for handling large quantities of material.

**WORK HYGIENIC PRACTICES:** Ensure all work surfaces are clean and dry.

# L'ORÉAL USA

## Occupational Exposure Values:

OSHA PEL-TWA:	None Established
ACGIH TLV-TWA:	None Established
OSHA PEL/ACGIH TLV STEL :	None Established
OSHA PEL/ACGIH TLV CEILING:	None Established

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE AND ODOR:** Colored, transparent or opaque, semi-viscous liquid with a pleasant odor.

**PHYSICAL STATE:** Colored, opaque, semi-viscous liquid.

**BOILING POINT:** F: ~212      C: ~100      **MELTING POINT:** N/A

**FREEZING POINT:** F: ~32      C: ~0

**VAPOR PRESSURE (mmHg):** @ F: N/A      C: N/A

**VAPOR DENSITY (AIR = 1):** @ F: N/A      C: N/A

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** ~1      **EVAPORATION RATE:** N/A

**SOLUBILITY IN WATER:** Freely soluble      **pH:** 3.5 – 9.0

**FLAMMABLE LIMITS IN AIR (% BY VOLUME):** UPPER: N/A      LOWER: N/A

**FLASH POINT:** F: N/A      C: N/A      **METHOD USED:** N/A

**AUTOIGNITION TEMPERATURE:** F: N/A      C: N/A

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Material is stable.

**CONDITIONS TO AVOID (STABILITY):** None known.

**INCOMPATIBILITY (MATERIALS TO AVOID):** None known.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur      **CONDITIONS TO AVOID (POLYMERIZATION):** N/A

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### **CARCINOGENICITY:**

**OSHA:** Not recognized as carcinogenic

**ACGIH:** Not recognized as carcinogenic

**NTP:** Not recognized as carcinogenic

**IARC:** Not recognized as carcinogenic

**ROUTES OF EXPOSURE:** Eyes, skin





**POTENTIAL HEALTH EFFECTS:**

**EYES:** Irritation  
**SKIN:** Irritation  
**INGESTION:** Gastrointestinal disturbance and diarrhea  
**INHALATION:** None expected

**ACUTE HEALTH HAZARDS:** Eye irritation. Prolonged contact may cause irritation of skin and mucous membranes. May cause gastrointestinal disturbance and diarrhea if ingested.

**CHRONIC HEALTH HAZARDS:** Possible allergic dermatitis.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Existing dermatological conditions (such as eczema) may be exacerbated.

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**SECTION 12: ECOLOGICAL INFORMATION**

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The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices. Additional information is available from the supplier on request.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Products in this category are non-hazardous material when intended for disposal. Acceptable methods of disposal include incineration and shredding for finished products/bulk material.

**RCRA HAZARD CLASS:** Not regulated

Follow all local governmental requirements intended for disposal.

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**SECTION 14: TRANSPORT INFORMATION**

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**North American Ground Transportation**

- **In Consumer Packaging:** Not regulated
- **OTHER THAN CONSUMER PACKAGING:** Not regulated

**Transport Via Water**

- **In Consumer Packaging:** Not regulated
- **OTHER THAN CONSUMER PACKAGING:** Not regulated

**Transport Via Air**

- **In Consumer Packaging:** Not regulated
- **OTHER THAN CONSUMER PACKAGING:** Not regulated

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**SECTION 15: REGULATORY INFORMATION**

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

**Hazardous Materials Identification System:**

**Occupational Safety and Health Administration:** Eye irritant, possible skin irritant

**US DOT/ICAO/IMDG:** See section 14 above

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**SECTION 16: OTHER INFORMATION**

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**PREPARATION INFORMATION:** This document replaces the version dated December 18, 2003 and all previous versions of material safety data sheets related to this product.

Preparer: Ronald Weslosky/Chandra L. Jennings



**MATERIAL SAFETY DATA SHEET**  
**MSDS DATE: September 10, 2007**

**MSDS # 99-011**

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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

**Emergency Telephone Number**  
800-535-5053 (International: 352-323-3500)

**For further information:**  
732-499-2741

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**Product Name: Water-based Aerosols NFPA Level 1**

Recommendations on use: Aerosol-packaged cream or gel for personal care use (hair/skin)

**CAUTION:** Contents under pressure. Do not store at temperatures above 120F. Do not puncture or incinerate. Avoid fire, flame, heat and other sources of ignition. For external use only. Use only as directed. Keep out of reach of children. Avoid spraying into eyes.

This document is written for the packaged product (aerosol can containing propellants) with references to the dispensed or unpackaged product (liquid/gel or foam) as necessary.

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**SECTION 2: HAZARDS IDENTIFICATION**

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Aerosol can filled with water-based product – product may foam when dispensed.

Contents under pressure. Do not store at temperatures above 120 F. Do not puncture or incinerate. Avoid fire, flame and other sources of ignition.

**OSHA** flammable compressed gas; **DOT** 2.1 flammable aerosol; **WHMIS** Class B Division 5 Aerosol; **NFPA** Level 1 aerosol

May have irritating properties if product comes in contact with eyes.

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

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<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Difluoroethane	75-37-6	<20
Isobutane	75-28-5	<6
Butane	106-97-8	<6
Dimethyl ether	115-10-6	<6
Propane	74-98-6	<6
Ethyl Alcohol	64-17-5	<6

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**SECTION 4: FIRST AID MEASURES**

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**EYES:** Immediately flush with water for at least fifteen minutes. Get medical attention if irritation occurs.

**SKIN:** Wash off with water.

**INGESTION:** If swallowed, do not induce vomiting. Consult a physician if gastrointestinal symptoms occur.

**INHALATION:** Move to fresh air. If irritation symptoms persist, get medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** No special remarks.



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## SECTION 5: FIRE-FIGHTING MEASURES

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**EXTINGUISHING MEDIA:** Water and/or foam – typically a Class A or Class B extinguisher should be sufficient for the product. However, selection of a fire extinguisher should also be appropriate to address the location of the fire and equipment involved.

**SPECIAL FIRE FIGHTING PROCEDURES:** Treat as NFPA Level 1 aerosol. Follow National Fire Protection Association Guidelines.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Shipped and stored as liquefied compressed gas under pressure. The propellants are extremely flammable as individual components. However, the dispensed liquid product (not including propellants) is non-flammable based upon flame extension criteria.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Since this product is a sealed aerosol, accidental discharge of contents is unlikely unless the can is punctured. Should this occur, solidify foam and/or free liquid with a suitable absorbent and place in plastic or metal containers for disposal.

**PERSONAL PROTECTIVE EQUIPMENT:** Plastic or rubber gloves, apron may be required for clean-up of large spills.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Caution: contents under pressure. Do not store at temperatures above 120 F. Do not puncture or incinerate aerosol cans. Avoid fire, flame, heat and other sources of ignition.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** None required for product use. For handling large quantities of material, such as in the manufacturing of product, ventilation should be utilized. Testing of aerosol cans should only be performed with explosion-proof ventilation equipment.

**VENTILATION:** 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.

**RESPIRATORY PROTECTION:** 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.

**EYE PROTECTION:** None required for product use. For handling of large quantities of liquid material, safety glasses with side shields/goggles are recommended. For testing of pressurized cans, face shields or other protective equipment that protects the eyes/face should be considered for use.

**SKIN PROTECTION:** None required for product use. For handling large quantities of material, such as in product manufacturing, plastic or rubber gloves should be considered for use.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None required for product use. Tyvek clothing may also be suitable for handling large quantities of material in the manufacturing environment.

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



### Occupational Exposure Values:

OSHA PEL-TWA:	None established
ACGIH TLV-TWA:	1000 ppm Butane/Isobutane/Propane (as Aliphatic hydrocarbon gases)
	None listed Difluoroethane/Dimethyl ether
OSHA PEL/ACGIH TLV STEL :	None Established
OSHA PEL/ACGIH TLV CEILING:	None Established

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE AND ODOR:** Aerosol can dispensing foam or gel with fragrance.

**PHYSICAL STATE:** Product dispensed as foam/gel

**BOILING POINT:**

F: N/A

C: N/A

**MELTING POINT:**

F: N/A

C: N/A

**FREEZING POINT:**

F: N/A

C: N/A

**VAPOR PRESSURE (mmHg):**

@ 70 F: 2500 – 5500; @ 21 C: 2500 -- 5500

**VAPOR DENSITY (AIR = 1):**

@ 70 F: >1; @ 21 C: >1

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** compressed liquid ~ 1; foam <1

**EVAPORATION RATE:** <1 for product

(Butyl acetate = 1)

**SOLUBILITY IN WATER:** Soluble

**FLAMMABLE LIMITS IN AIR (% BY VOLUME):** BUTANE, UPPER: 8.4% LOWER: 1.6%

**FLASH POINT:** <0F; **METHOD USED:** Closed Cup

**AUTOIGNITION TEMPERATURE:**

F: N/A

C: N/A

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Product is stable.

**CONDITIONS TO AVOID (STABILITY):** Heat, fire, flame and other sources of ignition.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Oxidizing agents and nitric acid.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID (POLYMERIZATION):** None known



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## SECTION 11: TOXICOLOGICAL INFORMATION

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### CARCINOGENICITY:

**OSHA:** Not recognized as carcinogenic  
**NTP:** Not recognized as carcinogenic  
**ACGIH:** Not recognized as carcinogenic  
**IARC:** Not recognized as carcinogenic

### ROUTES OF EXPOSURE:

Inhalation, eyes, skin

### POTENTIAL HEALTH EFFECTS:

**EYES:** Possible irritation  
**INGESTION:** Harmful if swallowed  
**SKIN:** None expected  
**INHALATION:** None expected

### ACUTE HEALTH HAZARDS:

May cause eye irritation in the event that contact with product occurs. Ingestion of large quantities may produce temporary gastrointestinal disturbance and diarrhea. No adverse effects anticipated following dermal exposure.

### CHRONIC HEALTH HAZARDS:

None anticipated

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None known.

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## SECTION 12: ECOLOGICAL INFORMATION

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The product ingredients are expected to be safe for the environment at the concentrations predicted under normal use and accidental spill scenarios.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Water-based aerosol products are ignitable (D001) RCRA hazardous wastes when intended for disposal. Controlled incineration at a hazardous waste facility is the recommended technology for treatment and disposal.

**RCRA HAZARD CLASS:** D001

Follow all local governmental requirements intended for disposal.



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## SECTION 14: TRANSPORT INFORMATION

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### North American Ground Transportation

- **In Consumer Packaging:** ORM-D; Consumer Commodity
- **OTHER THAN CONSUMER PACKAGING (liquid without propellant):** Non-hazardous/Not regulated

### Transport Via Water

- **In Consumer Packaging:** Limited Quantity  
ID NUMBER: UN 1950  
PROPER SHIPPING NAME: Aerosols  
HAZARD CLASS: 2.1  
PACKING GROUP:  
LABEL STATEMENTS:
- **OTHER THAN CONSUMER PACKAGING (liquid without propellant):** Non-hazardous/Not regulated

### Transport Via Air

- **In Consumer Packaging:** Consumer Commodity ID 8000
- **OTHER THAN CONSUMER PACKAGING (liquid without propellant):** Non-hazardous/Not regulated

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

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## SECTION 15: REGULATORY INFORMATION

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**National Fire Protection Association Codes:** Health: 1 Fire: 1 Reactivity: 0 Other: None  
**Hazardous Materials Identification System:** Class B Division 5 Flammable Aerosol  
**Occupational Safety and Health Administration:** Flammable Compressed gas (aerosol).  
**US DOT/ICAO/IMDG:** See section 14 above

Product when dispensed/prior to packaging is non-hazardous.

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## SECTION 16: OTHER INFORMATION

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**PREPARATION INFORMATION:** This document replaces the version dated December 18, 2003 and all previous versions of material safety data sheets related to this product.

Author: Chandra L. Jennings



**MATERIAL SAFETY DATA SHEET**  
**MSDS DATE: October 5, 2007**

**MSDS # 99-012**

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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

**Emergency Telephone Number**  
800-535-5053 (International: 352-323-3500)

**For further information:**  
732-499-2741

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**Product Name: Alcohol-based Aerosols NFPA Level 2**

Recommendations on use: Aerosol-packaged liquid for personal care use (hair fixative)

**CAUTION:** Contents under pressure. Do not store at temperatures above 120F. Do not puncture or incinerate. Avoid fire, flame, heat and other sources of ignition. For external use only. Use only as directed. Keep out of reach of children. Avoid spraying into eyes. Liquid dispensed from the container is flammable until dry.

This document is written for the packaged product (aerosol can containing propellants) with references to the dispensed or unpackaged product (liquid) as necessary.

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**SECTION 2: HAZARDS IDENTIFICATION**

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Aerosol can filled with alcohol-based product – intended to be used as a spray.

Contents under pressure. Do not store at temperatures above 120 F. Do not puncture or incinerate. Avoid fire, flame and other sources of ignition.

**OSHA** flammable compressed gas; **DOT** 2.1 flammable aerosol; **WHMIS** Class B Division 2 Aerosol; **NFPA** Level 2 aerosol

Causes eye irritation if product comes in contact with eyes. Over-exposure may cause skin irritation. Ingestion may produce signs of alcohol intoxication.

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

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<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>% WT</b>
Ethyl Alcohol	64-17-5	<55
Dimethyl Ether	115-10-6	<30
Isobutane	75-28-5	<30
Butane	106-97-8	<25
Propane	74-98-6	<25
Difluoroethane	75-37-6	<45
Pentane	109-66-0	<10

---

**SECTION 4: FIRST AID MEASURES**

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**EYES:** Immediately flush with water for at least fifteen minutes. Get medical attention if irritation or other symptoms occur.

**SKIN:** Wash off with water and soap.

**INGESTION:** If swallowed, do not induce vomiting. Consult a physician immediately.



**INHALATION:** Move to fresh air. If irritation symptoms persist, get medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** No special remarks.

---

## **SECTION 5: FIRE-FIGHTING MEASURES**

---

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, foam, and/or water spray. However, selection of a fire extinguisher should also be appropriate to address the location of the fire and equipment involved.

**SPECIAL FIRE FIGHTING PROCEDURES:** Treat as NFPA Level 2 aerosol. Follow National Fire Protection Association Guidelines.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Shipped and stored as liquefied compressed gas under pressure. Both the propellants and the liquid product are extremely flammable as individual components. Accordingly, observe all appropriate precautions for handling flammable materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

---

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**ACCIDENTAL RELEASE MEASURES:** Since this product is a sealed aerosol, accidental discharge of contents is unlikely unless the can is punctured. Should this occur, eliminate all sources of ignition. Dike and contain the free liquid and absorb on vermiculite or spill pillows. Place spent absorbents in UN specification drums for disposal. The product is alcohol-based. All precautions associated with controlling a flammable liquid should be employed during clean-up.

**PERSONAL PROTECTIVE EQUIPMENT:** Plastic or rubber gloves, apron may be required for clean-up of large spills. Respiratory protection may need to be utilized, depending upon the size of the spill.

---

## **SECTION 7: HANDLING AND STORAGE**

---

**HANDLING AND STORAGE:** Flammable until dry. Do not use or store near heat, fire, flame, and other sources of ignition. Contents under pressure. Do not store at temperatures above 120°F. Do not puncture or incinerate. Avoid spraying in eyes. Store bulk quantities in a cool, well-ventilated room. Limit inventory to the extent possible.

---

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**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. Testing of aerosol cans should only be performed with explosion-proof ventilation equipment.

**VENTILATION:** 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.

**RESPIRATORY PROTECTION:** 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.

**EYE PROTECTION:** None required for product use. For handling of large quantities of liquid material, safety glasses with side shields/goggles are recommended. For testing of pressurized cans, face shields or other equipment that protects the eyes/face should be considered for use.

**SKIN PROTECTION:** None required for product use. For handling large quantities of material, such as in product manufacturing, plastic or rubber gloves should be considered for use.



# L'ORÉAL USA

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None required for product use. Tyvek clothing may also be suitable for handling large quantities of material in the manufacturing environment.

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

## Occupational Exposure Values:

<b>OSHA PEL-TWA:</b>	1000 ppm Pentane (all isomers)
<b>ACGIH TLV-TWA:</b>	1000 ppm Butane/Isobutane/Propane (as Aliphatic hydrocarbon gases) 600 ppm Pentane (all isomers)
<b>OSHA PEL/ACGIH TLV STEL:</b>	None listed Difluorethane/Dimethyl ether
<b>OSHA PEL/ACGIH TLV CEILING:</b>	None Established None Established

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE AND ODOR:** Aerosol can dispensing liquid material which dries soon after contact. The water-thin liquid may be slightly colored and/or fragranced.

**PHYSICAL STATE:** Product dispensed as a liquid spray.

**BOILING POINT:** F: N/A C: N/A

**MELTING POINT:** F: N/A C: N/A

**FREEZING POINT:** F: N/A C: N/A

**VAPOR PRESSURE (mmHg):**

@ 70 F: 2500 -- 5500 @ 21 C: 2500 -- 5500

**VAPOR DENSITY (AIR = 1):**

@ 70 F: >1; @ 21 C: >1

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** compressed liquid ~ 1; liquid <1

**EVAPORATION RATE:** >1 for product (Butyl acetate = 1)

**SOLUBILITY IN WATER:** Soluble (as liquid product)

**FLAMMABLE LIMITS IN AIR (% BY VOLUME):** BUTANE, UPPER: 8.4% LOWER: 1.6%; PENTANE, UPPER 7.8% LOWER 1.5%

**FLASH POINT:** <0 C propellants; <20C (as dispensed, liquid product) **METHOD USED:** Closed Cup

**AUTOIGNITION TEMPERATURE:** F: N/A C: N/A

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## **SECTION 10: STABILITY AND REACTIVITY**

---

**STABILITY:** Product is stable.

**CONDITIONS TO AVOID (STABILITY):** Heat, fire, flame and other sources of ignition.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Oxidizing agents and nitric acid.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known.



**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID (POLYMERIZATION):** None known

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

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### **CARCINOGENICITY:**

**OSHA:** Not recognized as carcinogenic

**NTP:** Not recognized as carcinogenic

**ACGIH:** Not recognized as carcinogenic

**IARC:** Not recognized as carcinogenic

### **ROUTES OF EXPOSURE:**

Inhalation, eyes, skin

### **POTENTIAL HEALTH EFFECTS:**

**EYES:** Irritation

**INGESTION:** Harmful if swallowed. May produce signs of alcohol intoxication

**SKIN:** Overexposure may cause skin irritation

**INHALATION:** May be irritating if overexposure occurs

### **ACUTE HEALTH HAZARDS:**

Causes eye irritation in the event that contact with product occurs. Ingestion of large quantities may produce temporary gastrointestinal disturbance and diarrhea. Ingestion may also produce signs and symptoms of alcohol intoxication. Overexposure may cause skin irritation.

### **CHRONIC HEALTH HAZARDS:**

None anticipated

### **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

None known.

---

## **SECTION 12: ECOLOGICAL INFORMATION**

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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.

---

## **SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Alcohol-based aerosol products are ignitable (D001) RCRA hazardous wastes when intended for disposal. Controlled incineration at a hazardous waste facility is the recommended technology for treatment and disposal.

**RCRA HAZARD CLASS:** D001

Follow all local governmental requirements intended for disposal.



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## SECTION 14: TRANSPORT INFORMATION

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### North American Ground Transportation

- **In Consumer Packaging:** ORM-D; Consumer Commodity
- **OTHER THAN CONSUMER PACKAGING (liquid without propellant):**  
ID NUMBER: UN 1170  
PROPER SHIPPING NAME: Ethyl alcohol, solution  
HAZARD CLASS: 3  
PACKING GROUP: II  
LABEL STATEMENTS: Flammable Liquid

### Transport Via Water

- **In Consumer Packaging:** Limited Quantity  
ID NUMBER: UN 1950  
PROPER SHIPPING NAME: Aerosols  
HAZARD CLASS: 2.1  
PACKING GROUP:  
LABEL STATEMENTS:
- **OTHER THAN CONSUMER PACKAGING (liquid without propellant):**  
ID NUMBER: UN 1170  
PROPER SHIPPING NAME: Ethyl alcohol, solution  
HAZARD CLASS: 3  
PACKING GROUP: II  
LABEL STATEMENTS: Flammable Liquid

### Transport Via Air

- **In Consumer Packaging:** Consumer Commodity ID 8000
- **OTHER THAN CONSUMER PACKAGING (liquid without propellant):**  
ID NUMBER: UN 1170  
PROPER SHIPPING NAME: Ethyl alcohol, solution  
HAZARD CLASS: 3  
PACKING GROUP: II  
LABEL STATEMENTS: Flammable Liquid

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



---

## SECTION 15: REGULATORY INFORMATION

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**National Fire Protection Association Codes:** Health: 2 Fire: 4 Reactivity: 0 Other: None  
**Hazardous Materials Identification System:** Class B Division 2 Flammable Aerosol  
**Occupational Safety and Health Administration:** Flammable Compressed gas (aerosol)  
**US DOT/ICAO/IMDG:** See section 14 above

Propellants as well as liquid contents are considered flammable. This regulatory information represents the product, in its consumer packaging.

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## SECTION 16: OTHER INFORMATION

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**PREPARATION INFORMATION:** This document replaces the version dated December 18, 2003 and all previous versions of material safety data sheets related to this product.

Author: Chandra L. Jennings

# Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements

U.S. Department of Labor

#99-015

Occupation Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

## IDENTITY

Liquid Volatile Silicone-Based Cosmetics

*Note: Blank spaces are not permitted. If any item is not applicable, or no  
information is available, the space must be marked to indicate that.*

## Section I

Manufacturer's Name L'Oreal USA Products, Inc.	Emergency Telephone Number (800) 535-5053 (Int'l 352-323-3500)
Address (Number, Street, City, State, and ZIP Code) 111 Terminal Avenue  Clark, NJ 07066	Telephone Number For Information (732) 499-2746
	Date Prepared February 6, 2006 (replaces 1-11-05)
	Signature of Preparer (optional) C. Jennings

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Cyclomethicone	None			<85%
Cyclopentasiloxane	None			<90%
Cyclohexasiloxane	None			<60%

## Section III - Physical/Chemical Characteristics

Boiling Point >150°F	Specific Gravity (H2O = 1) ~1
Vapor Pressure (mm Hg) N/A	Melting Point N/A
Vapor Density (AIR = 1) >1	Evaporation Rate (Butyl Acetate = 1) >1

Solubility in Water

Insoluble

Appearance and Odor

Semi-viscous clear to translucent liquid with a faint odor.

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) 26-140°F (closed cup)	Flammable Limits Cyclomethicone	LEL 0.5%	UEL 8.0%
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Extinguishing Media

Carbon dioxide, dry chemical, foam, and/or water spray.

Special Fire Fighting Procedures

Fires involving bulk product may be extinguished with carbon dioxide, dry chemical, and/or foam. Water spray may be used to soak corrugated shipping containers of finished product if involved in a fire.

Unusual Fire and Explosion Hazards

None; however, observe usual precautions for handling of flammable liquids. For manufacturing, minimize airborne vapor levels through engineering controls.

**Section V - Reactivity Data**

#99-015

Stability	Unstable		Conditions to Avoid	Avoid heat, fire, and other sources of ignition.
	Stable	X		

## Incompatibility (Materials to Avoid)

Oxidizing agents and nitric acid.

## Hazardous Decomposition or Byproducts

Silicon dioxide, carbon monoxide, carbon dioxide.

Hazardous	May Occur		Conditions to Avoid	None known.
	Polymerization	Will Not Occur		

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Not likely.

## Health Hazards (Acute and Chronic)

May cause eye irritation. Although product is non-toxic, ingestion of large quantities may produce temporary gastrointestinal disturbance and diarrhea. No adverse effects would be expected following dermal exposure.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

## Signs and Symptoms of Exposure

Possible eye irritation; temporary gastrointestinal disturbance and diarrhea.

## Medical Conditions Generally Aggravated by Exposure

None known.

## Emergency and First Aid Procedure

If in eyes, flush with plenty of water for at least 15 minutes. Get medical attention if irritation occurs. If swallowed, drink one or two glasses of water or milk and consult a physician. If on skin, wash with soap and water.

**Section VII - Precautions for Safe Handling and Use**

## Steps to be Taken in Case Material is Released or Spilled

Eliminate all sources of ignition. Dike and contain the free liquid, if any, and absorb on vermiculite, spill pillows, or other absorbants. Containerize spent absorbants in UN specification drums for disposal. Wash spill area with detergent solution as necessary.

## Waste Disposal Method

Liquid volatile silicone-based cosmetics are ignitable (D001) RCRA hazardous wastes when intended for disposal. Incineration is the required method of treatment and disposal.

## Precautions to be Taken in Handling and Storage

Store bulk quantities in a cool, well-ventilated room. Limit quantities on hand to the extent possible. Store away from possible sources of ignition. Observe usual precautions relative to static electricity. Avoid oxidizing agents and nitric acid.

## Other Precautions

For external use only. Use only as directed.

**Section VIII - Control Measures**

For routine manufacturing/filling operations, none generally required. For spills, wear an approved self-contained breathing apparatus.

Ventilation	Local Exhaust	Explosion-Proof	Special
	Mechanical(General)	Explosion-Proof	Other

Protective Gloves

Rubber or plastic gloves for bulk quantities.

---

Other Protective Clothing or Equipment

Safety glasses and protective clothing for bulk quantities.

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Work/Hygienic Practices

OSHA hazard classification: Flammable/combustible.

DOT classification: Bulk - Flammable liquids, N.O.S.

(cyclomethicone/cyclopentasiloxane/cyclohexasiloxane)

3 UN 1993 PGII or III.

Finished Product - Consumer Commodity, ORM-D.

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**Material Safety Data Sheet**

May be used to comply with  
 OSHA's Hazard Communication Standard  
 29 CFR 1910.1200. Standard must be  
 Consulted for specific requirements

**U.S. Department of Labor****#99-021**

Occupation Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

**IDENTITY**

Alcohol-Based Hair Styling Products

*Note: Blank spaces are not permitted. If any item is not applicable, or no  
 information is available, the space must be marked to indicate that.*

**Section I**

Manufacturer's Name L'Oreal USA Products, Inc.	Emergency Telephone Number (800) 535-5053 (Int'l 352-323-3500)
Address (Number, Street, City, State, and ZIP Code) 111 Terminal Avenue	Telephone Number For Information (732) 499-2745
Clark, NJ 07066	Date Prepared December 18, 2003
	Signature of Preparer (optional) GCD

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ethyl Alcohol	1000 ppm			Total Alcohols
Isopropyl Alcohol	400 ppm			25-92%

**Section III - Physical/Chemical Characteristics**

Boiling Point	120-170°F	Specific Gravity (H <sub>2</sub> O = 1)	~0.9
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	>1	Evaporation Rate (Butyl Acetate = 1)	~3
Solubility in Water Miscible			
Appearance and Odor Translucent, water thin liquid with a pleasant odor. (non-aerosol)			

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used) 30-73°F (closed cup)	Flammable Limits Ethanol	LEL 3.3%	UEL 19%
Extinguishing Media Carbon dioxide, dry chemical, foam and/or water spray.			
Special Fire Fighting Procedures For small fires, use carbon dioxide, dry chemical, or foam. For larger fires, use ample quantities of water.			
Unusual Fire and Explosion Hazards None; however, observe usual precautions for handling of flammable liquids. For manufacturing, minimize airborne vapor levels through engineering controls.			



**Section V - Reactivity Data**

#99-021

Stability	Unstable		Conditions to Avoid	Avoid fire, flame, heat, and other sources of ignition.
	Stable	X		

## Incompatibility (Materials to Avoid)

Oxidizing agents and nitric acid.

## Hazardous Decomposition or Byproducts

None known.

Hazardous Polymerization	May Occur		Conditions to Avoid	None known.
	Will Not Occur	X		

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Not likely

## Health Hazards (Acute and Chronic)

Causes eye irritation. May cause skin irritation or sensitization in sensitive individuals. May be harmful if swallowed.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

## Signs and Symptoms of Exposure

Overexposure and/or ingestion may produce signs and symptoms of alcohol intoxication.

## Medical Conditions Generally Aggravated by Exposure

None known.

## Emergency and First Aid Procedure

INGESTION: Give one or two glasses of water or milk and consult physician.

EYE CONTACT: Flush thoroughly with water for at least 15 minutes and get medical attention.

SKIN CONTACT: Flush with water, then wash with soap and plenty of water.

**Section VII - Precautions for Safe Handling and Use**

## Steps to be Taken in Case Material is Released or Spilled

Eliminate all sources of ignition. Dike and contain the free liquid and absorb with vermiculite or spill pillows. Containerize absorbed material in UN specification drums for disposal. Wash spill area with water.

## Waste Disposal Method

Alcohol-based products are ignitable (D001) RCRA hazardous wastes when intended for disposal. Incineration is the required method of treatment and disposal.

## Precautions to be Taken in Handling and Storage

Store bulk quantities in a cool, well-ventilated room. Limit quantities on hand to the extent possible. Store away from possible sources of ignition. Observe usual precautions relative to static electricity. Avoid oxidizing agents and nitric acid.

## Other Precautions

Avoid contact with eyes. For external use only. Use only as directed.

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**Section VIII - Control Measures**

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#99-021

## Respiratory Protection (Specify Type)

For manufacturing/filling, wear a NIOSH-approved organic vapor respirator if alcohol TLV is exceeded. For spills, wear an approved self-contained operating apparatus.

Ventilation	Local Exhaust	Explosion-Proof	Special
	Mechanical(General)	Explosion-Proof	Other

## Protective Gloves

Plastic or rubber for bulk quantities.

## Other Protective Clothing or Equipment

Safety glasses for bulk quantities. Protective clothing for manufacturing operations.

## Work/Hygienic Practices

OSHA hazard classification: Flammable, eye irritant

DOT classification: Bulk - Ethanol solutions, 3 UN 1170 PGII

Finished product - Consumer Commodity, ORM-D.



## MATERIAL SAFETY DATA SHEET

MSDS DATE: August 5, 2009

MSDS # 09-055

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

**Emergency Telephone Number**  
800-535-5053 (International: 352-323-3500)

**For further information:**  
732-499-2741

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**Product Name: Aqueous non-aerosol sprays containing <24% alcohol**

Recommendations on use: Personal care product used in the hair or on the skin.

CAUTION: Avoid fire, flame, heat and other sources of ignition. For external use only. Use only as directed. Keep out of reach of children. Avoid spraying into eyes.

---

### SECTION 2: HAZARDS IDENTIFICATION

---

Non-aerosol spray containing lotions or gels used in the hair or on the skin.

Do not store at temperatures above 120 F. Avoid fire, flame and other sources of ignition.

**OSHA** Combustible liquid; **DOT** EXEMPT as Class 3 Flammable liquid; **WHMIS** Class B Division 2 Flammable liquid; **NFPA** Class II Combustible liquid

Causes eye irritation if product comes in direct contact with eyes. Over-exposure may cause skin irritation. Ingestion may produce signs of alcohol intoxication.

---

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

---

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Ethyl Alcohol	64-17-5	2 -- 12

All other ingredients contained in this product are non-hazardous according to the Occupational Safety and Health Administration and applicable domestic/international transport safety regulations.

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### SECTION 4: FIRST AID MEASURES

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**EYES:** Immediately flush with water for at least fifteen minutes. Seek medical attention if irritation or other symptoms occur.

**SKIN:** Wash off with water and soap. If irritation develops and persists, seek medical attention.

**INGESTION:** If swallowed, do not induce vomiting. Consult a physician immediately.

**INHALATION:** Move to fresh air. If irritation symptoms persist, get medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** No special remarks.



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## SECTION 5: FIRE-FIGHTING MEASURES

---

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, foam, and/or water spray. However, selection of a fire extinguisher should also be appropriate to address the location of the fire and equipment involved.

**SPECIAL FIRE FIGHTING PROCEDURES:** Treat as NFPA Class II Combustible liquid. Follow National Fire Protection Association Guidelines.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Observe all appropriate precautions for handling NFPA Class II Combustible liquids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**ACCIDENTAL RELEASE MEASURES:** Eliminate all sources of ignition. Dike and contain the free liquid and absorb on vermiculite or spill pillows. Place spent absorbents in UN specification drums for disposal. All precautions associated with controlling a NFPA combustible liquid should be employed during clean-up.

**PERSONAL PROTECTIVE EQUIPMENT:** Plastic or rubber gloves and apron may be required for clean-up of large spills. Respiratory protection may need to be utilized, depending upon the size of the spill.

---

## SECTION 7: HANDLING AND STORAGE

---

**HANDLING AND STORAGE:** Do not use or store near heat, fire, flame, and other sources of ignition. Do not store at temperatures above 120°F. Avoid spraying in eyes. Store bulk quantities in a cool, well-ventilated room. Limit inventory to the extent possible.

---

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

---

**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 combustible materials.

**VENTILATION:** 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.

**RESPIRATORY PROTECTION:** 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.

**EYE PROTECTION:** None required for product use. For handling of large quantities of liquid material, safety glasses with side shields/goggles are recommended.

**SKIN PROTECTION:** None required for product use. For handling large quantities of material, such as in product manufacturing, plastic or rubber gloves should be considered for use.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None required for product use. Tyvek clothing may also be suitable for handling large quantities of material in the manufacturing environment.

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



### Occupational Exposure Values:

OSHA PEL-TWA:	1000 ppm Ethanol
ACGIH TLV-TWA:	1000 ppm Ethanol
OSHA PEL/ACGIH TLV STEL:	None Established
OSHA PEL/ACGIH TLV CEILING:	None Established

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

**APPEARANCE AND ODOR:** Colored or clear, water-thin liquid with a pleasant fragrance.

**PHYSICAL STATE:** Product dispensed as a non-aerosol liquid spray.

**BOILING POINT:** F: 173 (as ethanol) C: 78.3 (as ethanol)

**MELTING POINT:** F: N/A C: N/A

**FREEZING POINT:** F: N/A C: N/A

**VAPOR PRESSURE (mmHg):**

@ 70 F: 44 (as ethanol) @ 21 C: 44 (as ethanol)

**VAPOR DENSITY (AIR = 1):**

@ 70 F: >1; @ 21 C: >1

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** approx. 1

**EVAPORATION RATE:** >1 for product (Butyl acetate = 1)

**SOLUBILITY IN WATER:** Soluble

**COMBUSTIBLE LIMITS IN AIR (% BY VOLUME):** ETHANOL, UPPER: 19% LOWER: 3.3%;

**FLASH POINT:** 100 -140 F; 37.8 - 60 C **METHOD USED:** Closed Cup

**AUTOIGNITION TEMPERATURE:** F: N/A C: N/A

---

## SECTION 10: STABILITY AND REACTIVITY

---

**STABILITY:** Product is stable.

**CONDITIONS TO AVOID (STABILITY):** Heat, fire, flame and other sources of ignition.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Oxidizing agents and nitric acid.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID (POLYMERIZATION):** None known



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## SECTION 11: TOXICOLOGICAL INFORMATION

---

### CARCINOGENICITY:

**OSHA:** Not recognized as carcinogenic

**NTP:** Not recognized as carcinogenic

**ACGIH:** Not recognized as carcinogenic

**IARC:** Not recognized as carcinogenic

### ROUTES OF EXPOSURE:

Inhalation, eyes, skin

### POTENTIAL HEALTH EFFECTS:

**EYES:** Irritation

**INGESTION:** Harmful if swallowed. May produce signs of alcohol intoxication

**SKIN:** Overexposure may cause skin irritation

**INHALATION:** May be irritating if over-exposure occurs

### ACUTE HEALTH HAZARDS:

Causes eye irritation in the event that contact with product occurs. Ingestion of large quantities may produce temporary gastrointestinal disturbance and diarrhea. Ingestion may also produce signs and symptoms of alcohol intoxication. Over-exposure may cause skin irritation.

### CHRONIC HEALTH HAZARDS:

None anticipated

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None known.

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## 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.

---

## SECTION 13: DISPOSAL CONSIDERATIONS

---

**WASTE DISPOSAL METHOD:** According to 40 CFR Section 261.21(a)(1), the characteristic of ignitability will not apply to an aqueous solution that contains less than 24 percent alcohol and which has a flash point less than 60 degrees Celsius. Products associated with this documentation have been previously assessed to ensure applicability of this rule. Follow all local governmental requirements intended for disposal.

**RCRA HAZARD CLASS:** EXEMPT (see above)

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## SECTION 14: TRANSPORT INFORMATION

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### North American Ground Transportation

In accordance with US Department of Transportation 49 CFR 173.150(e), products associated with this document have been determined to contain at least 50% water and <24% alcohol by volume, therefore these materials are exempt from the US DOT Hazardous Materials Shipping Regulations.

- **In Consumer Packaging:** EXEMPT
- **OTHER THAN CONSUMER PACKAGING :** EXEMPT

### Transport Via Water

- **In Consumer Packaging:** Limited Quantity  
**ID NUMBER:** UN 1266  
**PROPER SHIPPING NAME:** Perfumery Products  
**HAZARD CLASS:** 3  
**PACKING GROUP:** Packaging in accordance with International Maritime Dangerous Goods Code Chapter 3.4  
**LABEL STATEMENTS:** Exempt from labeling and markings in accordance with International Maritime Dangerous Goods Code Chapter 3.4.5 and 3.4.7
- **OTHER THAN CONSUMER PACKAGING**  
**ID NUMBER:** UN 1266  
**PROPER SHIPPING NAME:** Perfumery Products  
**HAZARD CLASS:** 3  
**PACKING GROUP:** II  
**LABEL STATEMENTS:** Flammable Liquid

### Transport Via Air (International)

Products associated with this data sheet have been previously determined to be in accordance with the International Air Transport Association Dangerous Goods Regulations Special Provision A58. Since the products associated with this document have been determined to be aqueous solutions containing <24% alcohol by volume, these materials are exempt from the IATA DGR.

- **In Consumer Packaging:** EXEMPT
- **OTHER THAN CONSUMER PACKAGING:** EXEMPT

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



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## SECTION 15: REGULATORY INFORMATION

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**National Fire Protection Association Codes:** Health: 2 Fire: 2 Reactivity: 0 Other: None  
**Hazardous Materials Identification System:** Class II Combustible Liquid  
**Occupational Safety and Health Administration:** Combustible Liquid, Eye Irritant, Possible Skin Irritant  
**US DOT/ICAO/IMDG:** See section 14 above

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## SECTION 16: OTHER INFORMATION

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**PREPARATION INFORMATION:** This is an initial document referencing only creams, lotions and gels containing <24% alcohol. This document replaces a previous reference combining all products containing <24% alcohol and subject to associated exemptions dated December 18, 2003.

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# Material Safety Data Sheet

Products associated with this document are exempt from OSHA's Hazard Communication Standard 29 CFR 1910.1200, due to low presence or no presence of hazardous materials. Standard must be consulted for specific requirements and reporting thresholds.

**U.S. Department of Labor**      **Non-Haz**

Occupation Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved

OMB No. 1218-0072

## IDENTITY

L'Oreal Non-Hazardous hair styling, cosmetic and/or skin care products

*Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.*

## Section I

Manufacturer's Name L'Oreal USA Products, Inc.	Emergency Telephone Number (800) 535-5053 (Int'l 352-323-3500)
Address (Number, Street, City, State, and ZIP Code) 111 Terminal Avenue	Telephone Number For Information (732) 499-2745
Clark, NJ 07066	Date Prepared May 10, 2005
	Signature of Preparer (optional) CLJ/GCD

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Not applicable				

## Section III - Physical/Chemical Characteristics

Boiling Point (Liquids)	varies	Specific Gravity (H <sub>2</sub> O = 1)	>1
Vapor Pressure (mm Hg)	N/A	Melting Point (Solids)	varies
Vapor Density (AIR = 1)	>1	Evaporation Rate (Butyl Acetate = 1)	<1

### Solubility in Water

Generally soluble or miscible

### Appearance and Odor

May have a mild to moderate fragrance

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) >200°F	Flammable Limits Not applicable	LEL N/A	UEL N/A
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### Extinguishing Media

Carbon dioxide, dry chemical, foam, and/or water spray.

### Special Fire Fighting Procedures

Fires involving bulk product may be extinguished with carbon dioxide, dry chemical, and/or foam. Water spray may be used to soak corrugated shipping containers of finished product if involved in a fire.

### Unusual Fire and Explosion Hazards

None; however, observe usual precautions for handling of combustible materials. For manufacturing, minimize airborne vapor levels through engineering controls.

**Section V - Reactivity Data** **Non-Haz**

Stability	Unstable		Conditions to Avoid	Avoid heat, fire, and other sources of ignition.
	Stable	X		

Incompatibility (Materials to Avoid)  
Oxidizing agents and nitric acid.

Hazardous Decomposition or Byproducts  
Silicon dioxide, carbon monoxide, carbon dioxide.

Hazardous Polymerization	May Occur		Conditions to Avoid	None known.
	Will Not Occur	X		

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)  
No health hazards anticipated.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure  
No health hazards anticipated.

Medical Conditions Generally Aggravated by Exposure  
None known.

Emergency and First Aid Procedure  
If in eyes, flush with plenty of water for at least 15 minutes. Get medical attention if irritation occurs. If swallowed, drink one or two glasses of water or milk and consult a physician. If on skin, wash with soap and water.

**Section VII - Precautions for Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled  
Eliminate all sources of ignition. Dike and contain the free liquid, if any, and absorb on vermiculite, spill pillows, or other absorbants. Containerize spent absorbants in suitable containers for disposal. Wash spill area with detergent solution as necessary.

Waste Disposal Method  
Non-hazardous products are not regulated as hazardous wastes when intended for disposal. However, incineration is the recommended method of treatment and disposal for such products.

Precautions to be Taken in Handling and Storage  
Store bulk quantities in a cool, well-ventilated room. Limit quantities on hand to the extent possible. Store away from possible sources of ignition. Observe usual precautions relative to static electricity. Avoid oxidizing agents and nitric acid.

Other Precautions  
For external use only. Use only as directed.

**Section VIII - Control Measures**

For routine manufacturing/filling operations, none generally required. For spills, wear an approved self-contained breathing apparatus.

Ventilation	Local Exhaust	Explosion-Proof	Special
	Mechanical(General)	Explosion-Proof	Other

Protective Gloves

Rubber or plastic gloves for bulk quantities.

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Other Protective Clothing or Equipment

Safety glasses and protective clothing for bulk quantities.

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Work/Hygienic Practices

OSHA hazard classification: Non-Hazardous

DOT classification: Bulk - Not regulated

Finished Product - Not regulated.

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