

**REDKEN MSDS CLASSIFICATION**

Product Category	Product	MSDS
Bath	For Men Cleanse Bar	99-008
Conditioners - Treatments	All Soft Argan-6	99-001
	All Soft Conditioner	NON-HAZ
	All Soft Gold Glimmer Shine Treatment	NON-HAZ
	All Soft Heavy Cream	NON-HAZ
	All Soft Velvet Whip Thermal Softening Treatment	NON-HAZ
	Blonde Glam Color Enhancer Perfect Platinum	NON-HAZ
	Blonde Glam Color Enhancer Rich Vanilla	NON-HAZ
	Blonde Glam Conditioner	NON-HAZ
	Blonde Glam Crystal Flash Shine Treatment	NON-HAZ
	Blonde Glam Dream Whip	99-011
	Body Full Conditioner	NON-HAZ
	Body Full Light Conditioner	NON-HAZ
	Body Full Plump Treat	09-056
	Body Full Volume Amplifier Thickening Lift Spray	09-056
	Body Full Weightlifter Root Treatment	99-021
	Chemistry All Soft Shot Phase	NON-HAZ
	Chemistry Clear Moisture Shot Phase	NON-HAZ
	Chemistry Color Extend Shot Phase	NON-HAZ
	Chemistry Extreme Shot Phase	NON-HAZ
	Chemistry Real Control Shot Phase	NON-HAZ
	Chemistry Shot Phix 3.5 PHix Phase	NON-HAZ
	Chemistry Shot Phix 5.5 PHix Phase	NON-HAZ
	Chemistry Smooth Down Shot Phase	NON-HAZ
	Chemistry Smooth Lock Shot Phase	NON-HAZ
	Chemistry Time Reset Filler Shot Phase	NON-HAZ
	Clear Moisture Conditioner	NON-HAZ
	Clear Moisture Instant Polishing Prep	09-053
	Color Extend Conditioner	NON-HAZ
	Color Extend Rich Recovery	NON-HAZ
	Color Extend Shine Enrich	NON-HAZ
	Color Extend Sun After-Sun Masque	NON-HAZ
	Color Extend Sun Sparkling Shield	99-001
	Color Extend Total Recharge	NON-HAZ
	Extreme Anti-Snap Treatment	NON-HAZ
	Extreme CAT Protein Reconstructing Treatment	NON-HAZ
	Extreme Conditioner	NON-HAZ
	Extreme Deep Fuel Treatment	NON-HAZ
	Extreme Iron Repair Heat-Activated Protector	NON-HAZ
	Extreme Rescue Force	NON-HAZ
	Extreme Strength Builder	NON-HAZ
	Extreme Strength Builder Plus	NON-HAZ
	For Men Chill Blast Daily Anti-Dandruff Leave-In Treatment	09-053
	For Men Cool Finish Conditioner	NON-HAZ
	For Men Finish Up Daily Conditioner	NON-HAZ
	Fresh Curls Anti-Frizz Shiner Sealer	NON-HAZ
	Fresh Curls Conditioner	NON-HAZ
	Fresh Curls Curl Recovery Mask	NON-HAZ
	Fresh Curls Curl Refiner Leave-In Detangler	NON-HAZ
	Intra Force Hair Advance Intensive Treatment	99-021
	Intra Force Hair Densifier Thickening Foam	99-011
	Intra Force Micro Boost Treatment	09-053
Intra Force Scalp Stimulate	NON-HAZ	

**REDKEN MSDS CLASSIFICATION**

Product Category	Product	MSDS	
	Intra Force Scalp Treatment 3 - color treated	NON-HAZ	
	Intra Force Scalp Treatment 3 - thinning hair	99-021	
	Intra Force Toner 2	NON-HAZ	
	Nature's Rescue Cooling Deep Conditioner	NON-HAZ	
	Nature's Rescue Radiant Sea Spray	09-055	
	Nature's Rescue Refining Sea Polish	NON-HAZ	
	Nature's Rescue Revitalizing Sea Polish	NON-HAZ	
	Pre Art Clarifying Equalizer Treatment	NON-HAZ	
	Real Control Conditioner	NON-HAZ	
	Real Control Crema Care Nourishing Styling Treatment	NON-HAZ	
	Real Control Intense Renewal Super Moisturizing Mask	NON-HAZ	
	Real Control Mineral Elixir Smoothing Oil	99-012	
	Real Control Overnight Treat	NON-HAZ	
	Real Control Slim Supreme Slimming Serum	NON-HAZ	
	Real Control Thermal Resist Inner Hair Repair	NON-HAZ	
	Scalp Relief Dandruff Control Conditioner	NON-HAZ	
	Scalp Relief Dandruff Control Leave-In Treatment	NON-HAZ	
	Smooth Down Butter Treat	NON-HAZ	
	Smooth Down Conditioner	NON-HAZ	
	Smooth Down Detangling Cream Leave-In Smoother	99-023	
	Smooth Lock Butter Silk	NON-HAZ	
	Smooth Lock Conditioner	NON-HAZ	
	Smooth Lock Stay Sleek	NON-HAZ	
	Time Reset Conditioner	NON-HAZ	
	Time Reset Corrective Defense	NON-HAZ	
	Time Reset Porosity Filler	NON-HAZ	
	Time Reset Youth Revitalizer	NON-HAZ	
	Haircolor	Chromatics	99-023
Color Camo		99-013	
Color Fusion		99-023	
Color Fusion Extra Lift		99-023	
Color Gels		99-013	
Cover Fusion		99-023	
Double Fusion		99-023	
Hi-Fusion Color Highlights		99-023	
Shades EQ Conditioning Color Gloss		99-014	
Shades EQ Cover Plus		99-023	
Shades EQ Cream		99-023	
Shimmer One Color Cream		99-023	
Shampoos		All Soft Shampoo	99-009
		Blonde Glam Shampoo	99-009
	Body Full Shampoo	99-009	
	Body Full Shampoo Shampooing	99-009	
	Clear Moisture Shampoo	99-009	
	Color Extend Shampoo	99-009	
	Color Extend Sun After-Sun Shampoo	99-009	
	Extreme Shampoo	99-009	
	For Men Clean Spice 2-in-1 Conditioning Shampoo	99-009	
	For Men Densify Texturizing Shampoo	99-009	
	For Men Go Clean Shampoo	99-009	
	For Men Mint Clean Invigorating Shampoo	99-009	
	For Men Mint Rush Hair & Body Wash	99-009	
	For Men Retaliate Anti-Dandruff Shampoo	99-009	
	Fresh Curls Shampoo	99-009	

**REDKEN MSDS CLASSIFICATION**

Product Category	Product	MSDS
	Hair Cleansing Creme Clarifying Shampoo	99-009
	Intra Force Shampoo 1	99-009
	Nature's Rescue Detox Shampoo	99-009
	Nature's Rescue Refreshing Detox Shampoo	99-009
	Real Control Shampoo	99-009
	Scalp Relief Dandruff Control Shampoo	99-009
	Smooth Down Shampoo	99-009
	Smooth Lock Shampoo	99-009
	Time Reset Shampoo	99-009
Special Effects - Lighteners - Developers	Blonde Dimensions	99-030
	Blonde Icing Cream Developer 20 volume	99-028
	Blonde Icing Cream Develop 30 volume	99-029
	Blonde Icing Cream Developer 40 volume	99-029
	Blonde Icing Cream Lightener Ammonia Free	11-071
	Blonde Icing Power Lift	11-071
	Chromatics Oil in Cream Developer 10 volume	99-028
	Chromatics Oil in Cream Developer 20 volume	99-028
	Chromatics Oil in Cream Developer 30 volume	99-029
	Color Gels Developer 10 volume	99-028
	Color Gels Developer 20 volume	99-028
	Color Gels Developer 30 volume	99-029
	Color Gels Developer 40 volume	99-029
	Color Thickener	03-045
	Lift 5/15 Highlifting Booster	99-030
	Lift 5/15 Highlifting Creme	99-023
	Pro-Oxide Cream Developer 10 volume	99-028
	Pro-Oxide Cream Developer 20 volume	99-028
	Pro-Oxide Cream Developer 30 volume	99-029
	Pro-Oxide Cream Developer 40 volume	99-029
	Shades EQ Processing Solution	99-007
	Up To 7 De-Dusted Lightener	99-030
	Styling Products	Aerate 08 Bodifying cream mousse
Align 12 Protective Straightening Lotion		NON-HAZ
Blown Away 09 Protective Blow-Dry Gel		NON-HAZ
Body Full Carbo-Bodifier		NON-HAZ
Body Full Instant Bodifier Volumizing Foam		NON-HAZ
Colour Stylist Supreme Control Maximum Hold Hairspray		99-012
Contour 8		NON-HAZ
Crystal Curls 06 Defining Shine Gel		NON-HAZ
Curl Force 17 Texturizing Spray-Gel		09-055
Duo Shield 07 Color Protecting Gel Cream		NON-HAZ
Elastic Works 09 Waving Gel		NON-HAZ
Fabricate 03 Heat-Active Texturizer		99-012
Fashion Work 12 Versatile Working Spray		99-012
For Men Bulk Up Thickening Spray		99-021
For Men Dishevel Fiber Cream		NON-HAZ
For Men Disrupt Fiber Gum		NON-HAZ
For Men Get Groomed Cream		NON-HAZ
For Men Grip Tight Holding Gel		09-056
For Men Hard Wax High Rise		NON-HAZ
For Men Hold Still Firm Spray		99-012
For Men Loose Ends Liquid Pomade		NON-HAZ
For Men Maneuver Wax		NON-HAZ
For Men Mint Fix Sweat-Resist Gel		NON-HAZ

**REDKEN MSDS CLASSIFICATION**

Product Category	Product	MSDS
	For Men Mint Shape Forming Paste	NON-HAZ
	For Men Outplay Texture Putty	NON-HAZ
	For Men Polish Up Pomade	NON-HAZ
	For Men Shine Form Define Wax	NON-HAZ
	For Men Shine Form Defining Wax	NON-HAZ
	For Men Stand Tough Extreme Gel	NON-HAZ
	For Men Work Hard Molding Paste	NON-HAZ
	Forceful 23 Super Strength Finishing Spray	99-012
	Fresh Curl Boost Gel	NON-HAZ
	Fresh Curls Spring Mousse	99-011
	Full Frame 07 Mousse	99-011
	Glass Smoothing Complex 1	99-001
	Guts 10 Volume Spray Foam	99-001
	Hardwear 16 Super Strong Gel	NON-HAZ
	Headplay 12 Pliable Working Spray	99-021
	Hot Sets 22 Thermal Setting Mist	99-021
	Iron Silk 07 Ultra Straightening Spray	99-021
	Layer Lift 07 Length Elevating Spray Gel	NON-HAZ
	Matte Sponge 05 Rugged Texturizer	NON-HAZ
	Outshine Anti-Frizz Polishing Milk	NON-HAZ
	Powder Grip 03 Mattifying Hair Powder	NON-HAZ
	Powder Refresh 01 Aerosol Hair Powder/ Dry Shampoo	99-010
	Powder Refresh 01 Aerosol Hair Powder/ Dry Shampoo	99-010
	Power Tame 16 Intense Straightening Balm	NON-HAZ
	Pure Force 16 Non-Aerosol Fixing Spray	99-021
	Quick Dry 18 Instant Finishing Spray	99-012
	Quick Tease 15	99-012
	Rewind Pliable Styling Paste 6	NON-HAZ
	Ringlet 07 Curl Perfector	NON-HAZ
	Rootful 06 Root Lifting Spray	99-021
	Rough Clay 20 Matte Texturizer	NON-HAZ
	Rough Paste 12 Working Material	NON-HAZ
	Satinwear 02 Ultimate Blow-Dry Lotion	NON-HAZ
	Shine Flash 02 Glistening Mist	99-012
	Smooth Down Heat Glide	99-001
	Smooth Down Sleek Obedience Anti-Frizz Solid Serum	NON-HAZ
	Smooth Lock Activator	NON-HAZ
	Smooth Lock Heat Glide	NON-HAZ
	Smooth Lock Smooth Sealer	NON-HAZ
	Spray Starch 15 Versatile Ironing Spray	99-021
	Straight Sheer 06 Lightweight Straightening Gel	NON-HAZ
	Straight Straightening Balm 05	NON-HAZ
	Structure Wax 17 Classic Styling Wax	NON-HAZ
	Thickening Lotion 06 Body Builder	NON-HAZ
	Touch Control 05 Volumizing Texture Whip	99-011
	Tousle Whip 04 Soft Texturizing Cream-Wax	NON-HAZ
	Velvet Gelatine 07 cushioning blow-dry gel	NON-HAZ
	Vinyl Glam 2 Mega Shine Spray	99-021
	Water Wax 03 Shine Defining Pomade	NON-HAZ
	Wax Blast 10 High Impact Finishing Spray-Wax	99-001
	Wool 08 gel-slush texturizer	NON-HAZ
	Workforce 09 Flexible Volumizing Spray	99-012
Texture - Perms - Straighteners	Creative Curl - fine - limp - encrisol lotion	NON-HAZ
	Creative Curl - fine - limp - neutralizing lotion	99-027

**REDKEN MSDS CLASSIFICATION**

Product Category	Product	MSDS
	Creative Curl - fine - limp - reforming lotion	99-024
	Creative Curl - fine - limp - waving lotion	NON-HAZ
	Creative Curl - normal - neutralizing lotion	99-027
	Creative Curl - normal - reforming lotion	99-025
	Creative Curl - normal - waving lotion	NON-HAZ
	Creative Curl - tinted - moisturizing styling lotion	NON-HAZ
	Creative Curl - tinted - neutralizing	99-027
	Creative Curl - tinted - reforming lotion	99-024
	Creative Curl - tinted - waving lotion	NON-HAZ
		Curling Neutralizer
Inner Secret - essential protein flow lotion		09-053
Inner Secret - neutralizing lotion		99-027
Inner Secret - reforming lotion		99-024
Inner Secret - waving lotion		NON-HAZ
Shape Control Reducer		99-025
Smoothing Neutralizer		99-027
Vector Plus Extra Body Perm - neutralizing lotion		99-027
Vector Plus Extra Body Perm - waving lotion		99-025
Vector Plus Original - neutralizing lotion		99-027
Vector Plus Original - reforming lotion		99-024
Vector Plus Original - waving lotion		99-025

# 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 (H <sub>2</sub> O = 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%
---	------------------------------------	-------------	-------------

### 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.

---

Other Protective Clothing or Equipment

Safety glasses and protective clothing for bulk quantities.

---

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

---



# 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**

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

**#99-007**

## IDENTITY

Low Peroxide Acid Stabilized Developers

*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)
Hydrogen Peroxide	1 ppm			~2%
Phosphoric Acid	1mg/m <sup>3</sup>			<1%

## Section III - Physical/Chemical Characteristics

Boiling Point	~212°F	Specific Gravity (H2O = 1)	~1
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	<1

### Solubility in Water

Miscible pH = 1.8-2.0

### Appearance and Odor

Clear, water thin liquid with a faint odor.

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) >200°F (closed cup)	Flammable Limits None	LEL N/A	UEL N/A
--	--------------------------	------------	------------

### Extinguishing Media

Use media appropriate for materials actually involved in the fire.

### Special Fire Fighting Procedures

Upon decomposition, peroxides yield oxygen and may thereby stimulate the combustion of flammable and combustible materials. Extinguish fires with media appropriate for the burning material.

### Unusual Fire and Explosion Hazards

Caution: Oxidizer. Residual product on towels, sponges, or mops may cause fire. Rinse towels thoroughly before disposal. Rinse sponges and mops thoroughly before storage.

**Section V - Reactivity Data**

#99-007

Stability	Unstable		Conditions to Avoid	Avoid contact with iron, zinc, and reducing agents.
	Stable	X		

## Incompatibility (Materials to Avoid)

Organic compounds (including flammables and combustibles), iron, zinc, reducing agents, and strong bases.

## 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)

Danger: Corrosive. May cause burns of the skin, eyes, and other mucous membranes. Harmful or fatal if swallowed.

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

## Signs and Symptoms of Exposure

Contact with skin, eyes, and other mucous membranes will produce chemical burns which, if not promptly treated, may be accompanied by deep ulceration, necrosis, and scarring. Ingestion may produce burns, ulceration, and/or perforation of the alimentary canal followed by shock, circulatory collapse, and possibly death.

## Medical Conditions Generally Aggravated by Exposure

Preexisting dermatitis of the scalp and/or skin may be exacerbated by contact with this product.

## Emergency and First Aid Procedure

If swallowed and if victim is conscious, immediately rinse mouth with water, then drink one or two glasses of water or milk. Call a physician, hospital emergency room, or poison control center immediately. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person. If in eyes or on skin, flush with water for at least 15 minutes. Call a physician, hospital emergency room or poison control center immediately. Get medical attention.

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

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

Spills of this product should be diked and contained, treated with dilute lime or soda ash to neutralize the excess acid, and flushed with excess water to the sanitary sewer system. Spilled material may also be solidified and placed in appropriate UN specification drums for disposal.

## Waste Disposal Method

This product is an EPA corrosive (D002) hazardous waste when intended for disposal. Accordingly, disposal should be undertaken at a hazardous waste facility by neutralization, incineration, and/or other treatment and disposal in accordance with RCRA regulations.

## Precautions to be Taken in Handling and Storage

Avoid contact with eyes and skin. Do not taste, swallow, or inhale. Store in a cool location away from strong bases and organic compounds.

## Other Precautions

For external use only. Use only as directed. Keep out of reach of children.

---

**Section VIII - Control Measures**

---

#99-007

## Respiratory Protection (Specify Type)

None required for product use. For handling bulk quantities, use NIOSH-approved respirator if constituent TLVs are exceeded. For spills or fires, wear a self-contained breathing apparatus.

Ventilation	Local Exhaust	Recommended	Special
	Mechanical(General)	Acceptable	Other

## Protective Gloves

Plastic or rubber.

## Other Protective Clothing or Equipment

Safety glasses with side shields (or full face shield) and protective clothing are recommended for manufacturing operations. Safety shower and eyewash station should be immediately available.

## Work/Hygienic Practices

OSHA hazard classification: Corrosive, oxidizer

DOT classification: Bulk - Corrosive liquid, acidic, inorganic, N.O.S.  
(Phosphoric Acid) 8 UN 3264 PGIII

Finished Product - Consumer Commodity, ORM-D.

**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****#99-008**

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

IDENTITY Fatty Acid-Based Bar Soaps	<i>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.</i>
--	--

**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)
Sodium Tallowate/Cocoate/Palmitate Soap				~90

**Section III - Physical/Chemical Characteristics**

Boiling Point	N/A	Specific Gravity (H2O = 1)	>1
Vapor Pressure (mm Hg)	N/A	Melting Point	>180°F
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water

Soluble

Appearance and Odor

Waxy soap bar with a characteristic fragrance.

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

Flash Point (Method Used) >200°F (closed cup)	Flammable Limits None	LEL N/A	UEL N/A
--	--------------------------	------------	------------

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 media. Water spray may be used to soak shipping containers of finished product if involved in a fire. Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Thermal decomposition may produce acrolein, chlorides, sulfur and nitrogen oxides, ammonia, and/or sodium oxide.

**Section V - Reactivity Data**

#99-008

Stability	Unstable		Conditions to Avoid	None known.
	Stable	X		

## Incompatibility (Materials to Avoid)

Strong acids and bases, oxidizing agents.

## Hazardous Decomposition or Byproducts

(Thermal decomposition) Acrolein, chlorides, sulfur and nitrogen oxides, ammonia, sodium oxide.

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?
	Not likely	Yes	Not likely.

## Health Hazards (Acute and Chronic)

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

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

## Signs and Symptoms of Exposure

Possible irritation of eyes and/or skin. Possible gastrointestinal disturbance and diarrhea.

## Medical Conditions Generally Aggravated by Exposure

None known.

## Emergency and First Aid Procedure

If product gets in eyes or on skin, flush with plenty of water. Get medical attention if irritation occurs. If swallowed, drink one or two glasses of water or milk. If a large quantity is ingested, or if gastrointestinal symptoms occur, consult a physician.

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

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

Since product is a solid bar soap, "spillage" of finished product is not pertinent. If bulk molten material is spilled during manufacturing, dike and contain the free liquid, if any, and solidify with absorbants as necessary. Place solidified material in proper containers for disposal.

## Waste Disposal Method

Bar soaps are considered non-hazardous material when intended for disposal. Acceptable methods of disposal include incineration, and shredding followed by landfilling.

## Precautions to be Taken in Handling and Storage

Avoid contact with eyes and prolonged contact with skin.

## Other Precautions

For external use only. Use only as directed.

**Section VIII - Control Measures**

## Respiratory Protection (Specify Type)

None required other than for firefighting as noted in Section IV.

Ventilation	Local Exhaust	Not required	Special
	Mechanical(General)	Acceptable	Other

## Protective Gloves

For manufacturing, rubber or plastic gloves should be worn.

Other Protective Clothing or Equipment

**#99-008**

Safety glasses with side shields and protective clothing are recommended for manufacturing operations.

---

Work/Hygienic Practices

OSHA hazard classification: Eye irritant

DOT classification: Bulk - Not regulated

Finished Product - Not regulated.

---



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

**MSDS # 99-009**

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

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

---

**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.

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

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).

---

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

---

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

---

**SECTION 4: FIRST AID MEASURES**

---

**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.



---

## SECTION 5: FIRE-FIGHTING MEASURES

---

**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

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**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.

---

## SECTION 7: HANDLING AND STORAGE

---

**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

---

## 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 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

---

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

---

**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

---

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

---

**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

---

## **SECTION 11: TOXICOLOGICAL INFORMATION**

---

### **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  
**INGESTION:** Gastrointestinal disturbance and diarrhea  
**SKIN:** Irritation  
**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.

---

### SECTION 12: ECOLOGICAL INFORMATION

---

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.

---

### SECTION 13: DISPOSAL CONSIDERATIONS

---

**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.

---

### SECTION 14: TRANSPORT INFORMATION

---

#### 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

---

### SECTION 15: REGULATORY INFORMATION

---

**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

---

### SECTION 16: OTHER INFORMATION

---

**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**

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

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

---

**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.

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

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.

---

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

---

<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

---

**SECTION 4: FIRST AID MEASURES**

---

**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.



---

## SECTION 5: FIRE-FIGHTING MEASURES

---

**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

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**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.

---

## SECTION 7: HANDLING AND STORAGE

---

**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.

---

## 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. 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

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

**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

---

## 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



---

## 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:** 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.

---

## SECTION 12: ECOLOGICAL INFORMATION

---

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

---

## SECTION 13: DISPOSAL CONSIDERATIONS

---

**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.



---

## SECTION 14: TRANSPORT INFORMATION

---

### 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.

---

## SECTION 15: REGULATORY INFORMATION

---

**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.

---

## SECTION 16: OTHER INFORMATION

---

**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**

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

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

---

**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.

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

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.

---

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

---

<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**

---

**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**

---

**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

---

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

---

**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

---

## **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

---

## **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 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**

---

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:** 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.



---

## SECTION 14: TRANSPORT INFORMATION

---

### 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

---

**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.

---

## SECTION 16: OTHER INFORMATION

---

**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****#99-013**

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

**IDENTITY**

Permanent Hair Dyes Containing Ethanol

*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)
Ethanol	1000 ppm			<10
Ethanolamine	3 ppm			<10
Ethoxydiglycol				<10
Ammonium Hydroxide		25 ppm		<7
p-Phenylenediamine	0.1mg/m <sup>3</sup>			<5
Aminophenols	None			<2
Resorcinol		10 ppm		<1
Hydroquinone	2 mg/m <sup>3</sup>			<1

**Section III - Physical/Chemical Characteristics**

Boiling Point	170-200°F	Specific Gravity (H <sub>2</sub> O = 1)	0.9-1.0
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	<1	Evaporation Rate (Butyl Acetate = 1)	>1

**Solubility in Water**

Soluble pH = 9.0-11.5

**Appearance and Odor**

Clear yellow to amber watery liquid with an alcoholic/ammonical odor.

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

Flash Point (Method Used) 80-120°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, and/or foam.  
 For larger fires, use ample quantities of water.

**Unusual Fire and Explosion Hazards**

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

**Section V - Reactivity Data**

#99-013

Stability	Unstable		Conditions to Avoid	Avoid heat, fire, flame, 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	No likely.

## Health Hazards (Acute and Chronic)

Harmful if swallowed, inhaled, or absorbed through skin. This product may cause serious irritant, respiratory, and/or allergic reactions in sensitive individuals.

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

## Signs and Symptoms of Exposure

Signs of alcohol intoxication may occur following ingestion or prolonged inhalation. Also, possible irritation of eyes, skin, and mucous membranes. Possible irritant/allergic dermatitis and respiratory signs and symptoms, the onset of which may be delayed.

## Medical Conditions Generally Aggravated by Exposure

Existing dermatological conditions, such as eczema, and respiratory conditions, such as bronchial asthma and/or chronic bronchitis, may be exacerbated.

## Emergency and First Aid Procedure

If swallowed, call a physician, hospital emergency room, or poison control center immediately. Induce vomiting only if recommended by medical personnel. Get prompt medical attention. If affected by inhalation, move to fresh air. If symptoms persist, get medical attention. If eye or skin contact occurs, immediately flush with water and get medical attention if irritation occurs.**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 suitable absorbant material. Place spent absorbants in proper containers for disposal.

## Waste Disposal Method

This material is not regulated under RCRA. Accordingly, incineration at a non-hazardous waste treatment facility is the preferred method of disposal.

## Precautions to be Taken in Handling and Storage

Store bulk quantities in a cool, well-ventilated room away from ignition sources. Avoid contact with eyes and skin (other than areas of application). Do not inhale or ingest. Prepare and use in a well-ventilated area. To assure maximum shelf-life, avoid direct sunlight.

## Other Precautions

For external use only. Use only as directed. Keep out of reach of children. Patch test is intended to identify skin reaction only; it will not necessarily predict sensitization or irritation secondary to inhalation. Read the product package insert completely.

**Section VIII - Control Measures**

#99-013

---

**Respiratory Protection (Specify Type)**

For manufacturing/filling, wear a NIOSH-approved respirator if constituent TLVs are exceeded. For spill management, use an approved self-contained breathing apparatus. For product use, respiratory protection is generally unnecessary.

---

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

---

**Protective Gloves**

Plastic or rubber gloves.

---

**Other Protective Clothing or Equipment**

Safety glasses with side shields and protective clothing for bulk quantities.

---

**Work/Hygienic Practices**

OSHA hazard classification: Flammable/combustible, irritant, slightly toxic, possible sensitizer.

DOT classification: Bulk - Not regulated.  
Finished Product - Not regulated.



# 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

#99-014

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

## IDENTITY

Semi-Permanent and Permanent Hair Dyes  
Containing Isopropanol

*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 January 27, 2006 (replaces December 13, 2003)
	Signature of Preparer (optional) CLJ

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Isopropanol	400 ppm			<15
Ethanolamine	3 ppm			<10
Ethoxydiglycol				<10
Ammonium Hydroxide		25 ppm		<7
p-Phenylenediamine	0.1mg/m <sup>3</sup>			<5
Aminophenols	None			<2
Resorcinol		10 ppm		<3.4
Hydroquinone	2 mg/m <sup>3</sup>			<1

## Section III - Physical/Chemical Characteristics

Boiling Point 150-200°F	Specific Gravity (H <sub>2</sub> O = 1) 0.9-1.0
Vapor Pressure (mm Hg) N/A	Melting Point N/A
Vapor Density (AIR = 1) <1	Evaporation Rate (Butyl Acetate = 1) >1

### Solubility in Water

Soluble pH = 9.0-11.5

### Appearance and Odor

Clear yellow to amber watery liquid with an alcoholic/ammonical odor.

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) 80-120°F (closed cup)	Flammable Limits Isopropanol	LEL 2.5%	UEL 12%
--	---------------------------------	-------------	------------

### Extinguishing Media

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

### Special Fire Fighting Procedures

For small fires, use carbon dioxide, dry chemical, and/or foam.  
For larger fires, use ample quantities of water.

### Unusual Fire and Explosion Hazards

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

**Section V - Reactivity Data**

#99-014

Stability	Unstable		Conditions to Avoid	Avoid heat, fire, flame, and other sources of ignition.
	Stable	X		
Incompatibility (Materials to Avoid)				
Oxidizing agents and nitric acid.				
Hazardous Decomposition or Byproducts				
None known.				
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)			
Harmful if swallowed, inhaled, or absorbed through skin. This product may cause serious irritant, respiratory, and/or allergic reactions in sensitive individuals.			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No
Signs and Symptoms of Exposure			
Irritation of eyes, skin, and mucous membranes. Possible irritant/allergic dermatitis and respiratory signs and symptoms, the onset of which may be delayed.			
Medical Conditions Generally Aggravated by Exposure			
Existing dermatological conditions, such as eczema, and respiratory conditions, such as bronchial asthma and/or chronic bronchitis, may be exacerbated.			
Emergency and First Aid Procedure			
If swallowed, call a physician, hospital emergency room, or poison control center immediately. Induce vomiting <u>only</u> if recommended by medical personnel. Get prompt medical attention. If eye or skin contact occurs, immediately flush with water and get medical attention if irritation occurs.			

**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 suitable absorbant material. Place spent absorbants in UN specification drums for disposal.
Waste Disposal Method
Isopropanol-based hair dyes 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 away from ignition sources. Limit quantities on hand to the extent possible. Avoid contact with eyes and skin (other than areas of application). Do not inhale or ingest. Prepare and use in a well-ventilated area. To assure maximum shelf-life, avoid direct sunlight.
Other Precautions
For external use only. Use only as directed. Keep out of reach of children. Patch test is intended to identify skin reaction only; it will not necessarily predict sensitization or irritation secondary to inhalation. Read the product package insert completely.

---

**Section VIII - Control Measures**#99-014

---

## Respiratory Protection (Specify Type)

For manufacturing/filling, wear a NIOSH-approved respirator if constituent TLVs are exceeded. For spill management, use an approved-self-contained breathing apparatus. For product use, respiratory protection is generally unnecessary.

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

## Protective Gloves

Plastic or rubber gloves.

## Other Protective Clothing or Equipment

Safety gloves with side shields and protective clothing for bulk quantities.

## Work/Hygienic Practices

OSHA hazard classification: Flammable/combustible, irritant, slightly toxic, possible sensitizer.

DOT classification: Bulk-Flammable liquids, N.O.S. (Isopropanol) 3 UN 1993 PGII.  
Finished Product - Consumer Commodity, ORM-D.

**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	<i>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.</i>
---	--

**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.

---

**Section VIII - Control Measures**

---

#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**

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****#99-023**

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

**IDENTITY**

Semi-Permanent and Permanent Hair Dyes  
 Containing No Alcohols

*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) 499-2746
Clark, NJ 07066	Date Prepared January 27, 2006 (replaces 12-18-03)
	Signature of Preparer (optional) CLJ

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

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ethanolamine	3 ppm			<10
Ethoxydiglycol				<10
Ammonium Hydroxide		25 ppm		<7
p-Phenylenediamine	0.1 mg/m <sup>3</sup>			<5
Aminophenols	None			<2
Resorcinol		10 ppm		<1.5
Hydroquinone	2 mg/m <sup>3</sup>			<1

**Section III - Physical/Chemical Characteristics**

Boiling Point 170-200°F	Specific Gravity (H <sub>2</sub> O = 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  
 Dispersible

Appearance and Odor

White to tan viscous liquid or cream with an ammonical odor.

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

Flash Point (Method Used) >200°F (closed cup)	Flammable Limits None	LEL N/A	UEL N/A
--	--------------------------	------------	------------

Extinguishing Media

Not applicable.

Special Fire Fighting Procedures

Not applicable.

Unusual Fire and Explosion Hazards

None known.

**Section V - Reactivity Data**

#99-023

Stability	Unstable		Conditions to Avoid	None known.
	Stable	X		

Incompatibility (Materials to Avoid)

None known.

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)

Harmful if swallowed, inhaled, or absorbed through skin. This product may cause serious irritant, respiratory, and/or allergic reactions in sensitive individuals.

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

Signs and Symptoms of Exposure

Irritation of eyes, skin, and mucous membranes. Possible irritant/allergic dermatitis and respiratory signs and symptoms, the onset of which may be delayed.

Medical Conditions Generally Aggravated by Exposure

Existing dermatological conditions, such as eczema, and respiratory conditions, such as bronchial asthma and/or chronic bronchitis, may be exacerbated.

Emergency and First Aid Procedure

If swallowed, call a physician, hospital emergency room, or poison control center immediately. Induce vomiting only if recommended by medical personnel. Get prompt medical attention. If affected by inhalation, move to fresh air. If symptoms persist, get medical attention. If eye or skin contact occurs, immediately flush with water and get medical attention if irritation occurs.

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

Steps to be Taken in Case Material is Released or Spilled

Dike and contain the free liquid, if any, and absorb on vermiculite, spill pillows, or other suitable absorbant material. Place spent absorbants in proper containers for disposal.

Waste Disposal Method

This material is not regulated under RCRA. Accordingly, incineration at a non-hazardous waste treatment facility is the preferred method of disposal.

Precautions to be Taken in Handling and Storage

Use only with adequate ventilation and avoid inhalation. Avoid contact with eyes and skin (other than areas of application). Do not inhale or ingest. Prepare and use in a well-ventilated area. To assure maximum shelf-life, avoid direct sunlight.

Other Precautions

For external use only. Use only as directed. Keep out of reach of children. Patch test is intended to indentify skin reaction only; it will not necessarily predict sensitization or irritation secondary to inhalation. Read the product package insert completely.



**Section VIII - Control Measures****#99-023**

---

**Respiratory Protection (Specify Type)**

For manufacturing/filling, wear a NIOSH-approved respirator if constituent TLVs are exceeded. For spill management, use an approved self-contained breathing apparatus. For product use, respiratory protection is generally unnecessary.

---

Ventilation	Local Exhaust	Recommended	Special
	Mechanical(General)	Generally Acceptable	Other

---

**Protective Gloves**

Plastic or rubber gloves.

---

**Other Protective Clothing or Equipment**

Safety glasses with side shields and protective clothing for bulk quantities.

---

**Work/Hygienic Practices**

OSHA hazard classification: Irritant, slightly toxic, possible sensitizer.

DOT classification: Bulk - Not regulated.

Finished Product - Not regulated.

---

**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****#99-024**

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

**IDENTITY**

Anhydrous Perm Wave Waving/Reforming Lotions

*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)
Glyceryl Monothioglycolate	None			~75%

**Section III - Physical/Chemical Characteristics**

Boiling Point N/A	Specific Gravity (H2O = 1) ~1.2
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**

Thick viscous liquid with a sulfurous odor.

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

Flash Point (Method Used) >200°F (closed cup)	Flammable Limits None	LEL N/A	UEL N/A
--	--------------------------	------------	------------

**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. Wear a self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards**

Material may undergo decomposition into hydrogen sulfide and oxides of sulfur in a fire.

**Section V - Reactivity Data**

#99-024

Stability	Unstable		Conditions to Avoid Avoid excessive heat.
	Stable	X	
Incompatibility (Materials to Avoid)			
Metallic stirrers and bowls, iron, nickel, oxidizing agents, and acids.			
Hazardous Decomposition or Byproducts			
Hydrogen sulfide, sulfur dioxide, sulfur trioxide.			
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)

Harmful if swallowed, inhaled, or absorbed through skin. This product may cause serious irritant, respiratory, and/or allergic reactions in sensitive individuals.

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

## Signs and Symptoms of Exposure

Irritation of eyes, skin, and mucous membranes. Possible irritant/allergic dermatitis and respiratory signs and symptoms, the onset of which may be delayed.

## Medical Conditions Generally Aggravated by Exposure

Existing dermatological conditions, such as eczema, and respiratory conditions, such as bronchial asthma and/or chronic bronchitis, may be exacerbated.

## Emergency and First Aid Procedure

If swallowed, call a physician, hospital emergency room, or poison control center immediately. Induce vomiting only if recommended by medical personnel. Get prompt medical attention. If affected by inhalation, move to fresh air. If symptoms persist, get medical attention. If eye or skin contact occurs, immediately flush with water and get medical attention if irritation occurs.

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

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

Dike and contain the free liquid, if any, and absorb on vermiculite, spill pillows, or other suitable absorbant material. Place spent absorbants in proper containers for disposal.

## Waste Disposal Method

This material is not regulated under RCRA. Accordingly, incineration at a non-hazardous waste treatment facility is the preferred method of disposal.

## Precautions to be Taken in Handling and Storage

Use only with adequate ventilation and avoid inhalation. Avoid contact with eyes and skin (other than areas of application). Do not inhale or ingest. Prepare and use in a well-ventilated area. To assure maximum shelf-life, avoid direct sunlight.

## Other Precautions

For external use only. Use only as directed. Keep out of reach of children. Patch test is intended to identify skin reaction only; it will not necessarily predict sensitization or irritation secondary to inhalation. Read the product package insert completely.

**Section VIII - Control Measures**

#99-024

---

**Respiratory Protection (Specify Type)**

For manufacturing/filling, wear a NIOSH-approved respirator if constituent TLVs are exceeded. For spill management, use an approved self-contained breathing apparatus. For product use, respiratory protection is generally unnecessary.

---

Ventilation	Local Exhaust	Recommended	Special
	Mechanical(General)	Generally Acceptable	Other

---

**Protective Gloves**

Plastic or rubber gloves.

---

**Other Protective Clothing or Equipment**

Safety glasses with side shields and protective clothing for bulk quantities.

---

**Work/Hygienic Practices**

OSHA hazard classification: Irritant, slightly toxic, possible sensitizer.

DOT classification: Bulk - Not regulated.

Finished Product - Not regulated.

---

**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****#99-025**

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

**IDENTITY**

Aqueous Perm Wave Waving/Reforming Lotions

*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)
Ammonium Thioglycolate	None			<15
Ethanolamine Thioglycolate	None			<5
Ammonium Hydroxide		25 ppm		<2

**Section III - Physical/Chemical Characteristics**

Boiling Point	~212°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

Miscible pH = 5-10

## Appearance and Odor

Clear or slightly colored water-thin to viscous liquid with an ammonical/sulfurous odor.

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

Flash Point (Method Used) >200°F (closed cup)	Flammable Limits None	LEL N/A	UEL N/A
--	--------------------------	------------	------------

## Extinguishing Media

Not applicable.

## Special Fire Fighting Procedures

Not applicable.

## Unusual Fire and Explosion Hazards

Not applicable.

**Section V - Reactivity Data**

#99-025

Stability	Unstable		Conditions to Avoid
	Stable	X	

Avoid excessive heat.

## Incompatibility (Materials to Avoid)

Metallic stirrers and bowls, iron, nickel, oxidizing agents, and acids.

## Hazardous Decomposition or Byproducts

Hydrogen sulfide, sulfur dioxide, sulfur trioxide.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

None known.

**Section VI - Health Hazard Data**

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

## Health Hazards (Acute and Chronic)

Harmful if swallowed, inhaled, or absorbed through skin. This product may cause serious irritant, respiratory, and/or allergic reactions in sensitive individuals.

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

## Signs and Symptoms of Exposure

Irritation of eyes, skin, and mucous membranes. Possible irritant/allergic dermatitis and respiratory signs and symptoms, the onset of which may be delayed.

## Medical Conditions Generally Aggravated by Exposure

Existing dermatological conditions, such as eczema, and respiratory conditions, such as bronchial asthma and/or chronic bronchitis, may be exacerbated.

## Emergency and First Aid Procedure

If swallowed, call a physician, hospital emergency room, or poison control center immediately. Induce vomiting only if recommended by medical personnel. Get prompt medical attention. If affected by inhalation, move to fresh air. If symptoms persist, get medical attention. If eye or skin contact occurs, immediately flush with water and get medical attention if irritation occurs.

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

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

Dike and contain the free liquid, if any, and absorb on vermiculite, spill pillows, or other suitable absorbant material. Place spent absorbants in proper containers for disposal.

## Waste Disposal Method

This material is not regulated under RCRA. Accordingly, incineration at a non-hazardous waste treatment facility is the preferred method of disposal.

## Precautions to be Taken in Handling and Storage

Use only with adequate ventilation and avoid inhalation. Avoid contact with eyes and skin (other than areas of application). Do not inhale or ingest. Prepare and use in a well-ventilated area. To assure maximum shelf-life, avoid direct sunlight.

## Other Precautions

For external use only. Use only as directed. Keep out of reach of children. Patch test is intended to identify skin reaction only; it will not necessarily predict sensitization or irritation secondary to inhalation. Read the product package insert completely.

---

**Section VIII - Control Measures**

---

#99-025

**Respiratory Protection (Specify Type)**

For manufacturing/filling, wear a NIOSH-approved respirator if constituent TLVs are exceeded. For spill management, use an approved self-contained breathing apparatus. For product use, respiratory protection is generally unnecessary.

---

Ventilation	Local Exhaust	Recommended	Special
	Mechanical(General)	Generally Acceptable	Other

---

**Protective Gloves**

Plastic or rubber gloves.

**Other Protective Clothing or Equipment**

Safety glasses with side shields and protective clothing for bulk quantities.

**Work/Hygienic Practices**

OSHA hazard classification: Irritant, slightly toxic, possible sensitizer.

DOT classification: Bulk - Not regulated.

Finished Product - Not regulated.

---

**Material Safety Data Sheet**

May be used to comply with

**U.S. Department of Labor**

Occupation Safety and Health Administration

**#99-027**

OSHA's Hazard Communication Standard  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements

(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY Perm Wave Neutralizers/Bonding Lotions	<i>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.</i>
--	--

**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) 499-2745
	Date Prepared September 22, 2004
	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)
Hydrogen Peroxide				≤4%

**Section III - Physical/Chemical Characteristics**

Boiling Point	~212°F	Specific Gravity (H2O = 1)	~1
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	<1

## Solubility in Water

Miscible pH = 2.5-3.5

## Appearance and Odor

Clear to white thin liquid with a faint odor.

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

Flash Point (Method Used) >200°F (closed cup)	Flammable Limits None	LEL N/A	UEL N/A
--	--------------------------	------------	------------

## Extinguishing Media

Use media appropriate for materials actually involved in the fire.

## Special Fire Fighting Procedures

Upon decomposition, peroxides yield oxygen and may thereby stimulate the combustion of flammable and combustible materials. Extinguish fires with media appropriate for the burning material.

## Unusual Fire and Explosion Hazards

Caution: Oxidizer. Residual product on towels, sponges, or mops may cause fire. Rinse towels thoroughly before disposal. Rinse sponges and mops thoroughly before storage.



**Section V - Reactivity Data**

#99-027

Stability	Unstable		Conditions to Avoid	Avoid contact with iron, zinc, and reducing agents.
	Stable	X		

**Incompatibility (Materials to Avoid)**

Organic compounds (including flammables and combustibles), iron, zinc, and reducing agents.

**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)**

May cause skin and severe eye irritation. Harmful if swallowed. May cause severe irritation of gastric mucous membranes if swallowed.

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

**Signs and Symptoms of Exposure**

Irritation of skin, eyes, and/or mucous membranes.

**Medical Conditions Generally Aggravated by Exposure**

None known.

**Emergency and First Aid Procedure**

If swallowed, drink one or two glasses of water or milk. Call a physician, hospital emergency room, or poison control center immediately. Do not induce vomiting. Get medical attention. If in eyes, flush with water for at least 15 minutes and get medical attention. If on skin, flush with water, then wash with soap and plenty of water. Consult a physician if irritation occurs.

**Section VII - Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

For small spills, wipe up with paper towels or a sponge. Wash area with water. Rinse paper towels, sponges, or mops thoroughly prior to disposal or storage. For large spills, dike and contain the free liquid. Use absorbant material to solidify spill and then place in proper containers for disposal.

**Waste Disposal Method**

Although dilute (<8%) hydrogen peroxide solutions are not regulated as hazardous wastes under RCRA, physical and/or chemical deactivation/degradation of the peroxide solution is the recommended method of treatment and disposal for these products.

**Precautions to be Taken in Handling and Storage**

Do not use or store with or near fuels, solvents, or other organic materials. Avoid iron, zinc, and reducing agents. Store in a cool place away from direct sunlight. Keep out of reach of children.

**Other Precautions**

For external use only. Use only as directed.

---

**Section VIII - Control Measures**

---

#99-027

**Respiratory Protection (Specify Type)**

None required for product use. For handling bulk quantities, use a NIOSH-approved respirator if peroxide TLV is exceeded. For spills or fires, wear a self-contained breathing apparatus.

Ventilation	Local Exhaust	Recommended	Special
	Mechanical(General)	Acceptable	Other

**Protective Gloves**

Plastic or rubber.

**Other Protective Clothing or Equipment**

Safety glasses with side shields (or full face shield) and protective clothing are recommended for manufacturing operations. Safety shower and eyewash station should be immediately available.

**Work/Hygienic Practices**

OSHA hazard classification: Oxidizer, irritant, slightly toxic

DOT classification: Bulk - Not regulated

Finished Product - Not regulated.

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

**24 Hour Emergency Telephone Number:**  
1-800-535-5053 (US)  
01-352-323-3500 (Outside US)

**For further information:**  
1-732-499-2741


**Product Name: ≤ 25 Volume Hair Developer and Other Products  
Containing < 8% Hydrogen Peroxide**

**Recommendations on use:** Liquid developer for promoting deposit of hair color.

**Restrictions on use:** Refer to product insert/container for use warnings. For external use only. Use only as directed.

## SECTION 2: HAZARDS IDENTIFICATION

**Signal Word: WARNING**

	Classification	Hazard Statement	Prevention Statements
	Eye Irritation – Category 2A	Causes serious eye irritation	<ul style="list-style-type: none"> <li>Wash hands and face thoroughly after handling.</li> <li>Wear eye protection/face protection. Chemical resistant goggles or a face shield is appropriate for the manufacturing environment.</li> </ul>

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**General Precautionary Statements:** Keep out of reach of children. Read insert/label before use. Store in a cool place. Avoid contamination of product. Discontinue use if rash, redness, or itching occurs.

**Hazards Not Otherwise Classified:** Harmful if swallowed. Overexposure may cause skin dryness or slight irritation. Prolonged contact may whiten skin. May cause irritation of gastric mucous membranes if swallowed.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Only hazardous constituents associated with the product are listed below**

<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>% WT</b>
Hydrogen Peroxide	7722-84-1	< 8%
White Mineral Oil	8042-47-5	≤ 20%

---

## SECTION 4: FIRST AID MEASURES

---

### Response Statements:

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 20 minutes or until material is sufficiently removed from the eye. **If eye irritation persists:** Get medical advice/attention.

**IF ON SKIN:** Wash with plenty of water. **If skin irritation occurs:** Get medical attention. Remove contaminated clothing and launder it before reuse.

In cases where discomfort persists and/or medical attention is sought, do not use hair color products again until the specific nature of the skin reaction and the causative agent has been identified by a dermatologist and appropriate medical advice provided.

**IF INHALED:** Remove individual to fresh air and keep in a position comfortable for breathing. Call a Poison Control Center if individual feels unwell.

**IF SWALLOWED:** Do not induce vomiting. Rinse mouth with water then drink plenty of water. Never give anything by mouth to an unconscious individual. Consult a physician or Poison Control Center immediately.

**SYMPTOMS/EFFECTS:** Eye irritation upon contact. Possible skin dryness/irritation if overexposed. Whitening of skin upon prolonged contact.

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

---

## SECTION 5: FIRE-FIGHTING MEASURES

---

**SUITABLE EXTINGUISHING MEDIA:** Chemical foam, dry chemical, carbon dioxide (CO<sub>2</sub>), or water spray. Selection of a fire extinguisher should be appropriate to address the location of the fire and other materials involved.

**SPECIFIC FIRE AND EXPLOSION HAZARDS:** Upon decomposition, material yields oxygen and may increase the burning rate of flammable/combustible materials. Extinguish fires with media appropriate for the burning material.

**PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:** Firefighters should wear self-contained breathing apparatus and full protective gear.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal degradation may produce oxides of carbon and/or nitrogen, hydrocarbons and/or derivatives. Decomposition will release oxygen which may intensify fires.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**Non-Emergency Personnel Precautions:** Consult trained response personnel for clean-up of large spills or in locations where providing control of the release is hazardous. Isolate the area and deny entry to unnecessary and unprotected personnel. Hazardous locations include areas where ignition sources cannot be controlled. Sections 2, 5, 7, and 8 should be consulted upon use of material, to become knowledgeable of the material's hazards and how to control associated risks.

If the location is not hazardous and only a small amount of material has been released: Dilute with water, absorb liquid with noncombustible material, and scrub the area with detergent. If potentially combustible materials (e.g. paper towels, sponges, mops) are used, rinse thoroughly prior to disposal or storage. Prohibit discharge to drains, soil, surface and ground waters. Dispose in accordance with Section 13 of this document.



**Product Name: < 25 Volume Hair Developer  
And Other Products Containing  
<8% Hydrogen Peroxide (99-028)**

**PERSONAL PROTECTIVE EQUIPMENT:** Plastic or nitrile gloves, safety glasses/goggles, and protective clothing (e.g. apron) may be required for clean-up of large spills. Respiratory protection is typically not necessary, but maybe used if occupational exposure limits are expected to be exceeded. Refer to Section 8 for additional information.

**Trained Emergency Personnel Precautions:** Dike and contain any free liquid. Solidify with vermiculite, spill pillows, or other suitable absorbent. Place solidified materials in containers suitable for disposal. Residual product on towels, sponges, or mops may cause spontaneous combustion. Thoroughly rinse potentially combustible material prior to disposal or storage. Prohibit discharge to drains, soil, surface and ground waters. Dispose in accordance with Section 13 of this document.

---

## SECTION 7: HANDLING AND STORAGE

---

**Precautions for safe handling:** Avoid contact with skin, eyes, and clothing. Refer to Section 8 for personal protective equipment selection. Do not eat, drink, or smoke while working with material. Wash hands and face thoroughly after handling. Do not expose to heat and flame. Use only in well ventilated areas. Avoid contamination with combustible organic materials (e.g. oil, sawdust, damp paper towels, etc...), metal, powder or reducing agents. Contamination may cause decomposition, leading to fire. Never return unused material to original container. Empty containers should be rinsed with water before discarding. Use only glass, stainless steel, aluminum, or plastic utensils.

Maintain a safe work environment, including proper housekeeping practices and structurally sound/compatible containers.

**Incompatible Materials:** Combustibles (e.g. wood, paper, oil), organics (e.g. alcohols, glycerols, etc...), metals (e.g. iron, copper, metal alloys), concentrated mineral acids, and reducing agents.

**Conditions for safe storage:** Store in the original tightly capped containers away from sunlight, heat, sparks, and flame. Keep in a cool and well-ventilated area. Keep container closed when not in use. Do not store any tint, lightener lotion or bleach powder after it has been mixed with developer; the container may rupture. Store separately from any combustible materials. Decomposition of hydrogen peroxide may cause increase in pressure and possible container rupture.

Keep away from open drains and protect from releases to the environment.

---

## 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>
Hydrogen Peroxide (7722-84-1)	OSHA PEL	1	1.4	--	--
	ACGIH TLV	1	1.4	--	--
	NIOSH REL	1	1.4	--	--
Mineral Oil (Highly Refined)	ACGIH TLV	--	5 (Inhalable)	--	--
Oil Mist, Mineral (8012-95-1)	OSHA PEL	--	5	--	--
	NIOSH REL	--	5	--	10

**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 oxidizing materials. Exhaust ventilation should be utilized to maintain air concentrations of material below the occupational exposure guidelines noted above.

**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 large quantities of 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, butyl rubber, nitrile rubber, or viton 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.

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

**APPEARANCE AND ODOR:** Clear to white water-thin liquid or viscous creamy emulsion.

**ODOR:** Material has faint fragranced odor.

**ODOR THRESHOLD:** Not Available

**pH:** 2.0 – 4.3

**MELTING/FREEZING POINT:** F: ~32 C: ~0

**BOILING POINT:** F: ~212 C: ~100

**FLASH POINT:** F: >200 C: >93.4 **METHOD USED:** Not Applicable

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

**FLAMMABILITY:** Not Applicable

**FLAMMABLE LIMITS IN AIR:** Not Available

**VAPOR PRESSURE (mmHg):** @ 86 F; 30 C: ~31

**VAPOR DENSITY (AIR = 1):** Not Available

**RELATIVE DENSITY (H<sub>2</sub>O = 1):** ≥ 0.93

**SOLUBILITY IN WATER:** Miscible

**PARTITION COEFFICIENT:** log P<sub>ow</sub>: -1.1 (20% H<sub>2</sub>O<sub>2</sub> Solution)

**AUTOIGNITION TEMPERATURE:** Not Available

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** Not Available (free flowing to creamy emulsion)

## SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY:** Contained material may show increases in pressure upon exposure to radiant heat (sunlight) or sources of ignition.

**STABILITY:** Product is stable under standard pressure and temperature.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Contact with combustible materials may lead to spontaneous combustion. Hazardous polymerization is not expected to occur.

**CONDITIONS TO AVOID:** Heat and sunlight. Contamination.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Combustibles (e.g. wood, paper, oil), organics (e.g. alcohols, glycerols, etc...), metals (e.g. iron, copper, metal alloys), concentrated mineral acids, and reducing agents. Do not use metallic bowls and stirrers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal degradation may produce oxides of carbon and/or nitrogen, hydrocarbons and/or derivatives. Decomposition will release oxygen which may intensify fires.

## SECTION 11: TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS:

#### ACUTE HEALTH EFFECTS:

**SKIN CORROSION/IRRITATION:** Overexposure may cause skin irritation or dryness

**SERIOUS EYE DAMAGE/IRRITATION:** Causes eye irritation

**RESPIRATORY/SKIN SENSITIZATION:** None expected

**INGESTION:** Harmful if swallowed. May cause irritation of gastric mucous membranes if swallowed.

**INHALATION:** May cause mild transient respiratory irritation

**ROUTES OF EXPOSURE:** Eyes, skin, inhalation, ingestion

**SYMPTOMS:** Symptoms may include watering, stinging, and redness of eye or blurry vision with direct contact. Prolonged contact may cause temporary whitening of the skin; redness and blisters may develop if skin is not washed promptly.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Pre-existing dermatitis may be made worse by exposure.

### ACUTE TOXICOLOGY DATA FOR COMPONENTS

	Route	Species	Test Results
Hydrogen Peroxide (10%)	Oral LD <sub>50</sub>	Rat	>5,000 mg/kg
Hydrogen Peroxide (70%)	Dermal LD <sub>50</sub>	Rabbit	9,200 mg/kg
Hydrogen Peroxide (35%)	Dermal LD <sub>50</sub>	Rabbit	>2,000 mg/kg
Hydrogen Peroxide (50%)	LC <sub>50</sub> (4 hr, vapor)	Rat	170 mg/m <sup>3</sup>
Hydrogen Peroxide (70%)	RD <sub>50</sub> (aerosol)	Mouse	665 mg/m <sup>3</sup>
White Mineral Oil	Oral LD <sub>50</sub>	Rat	> 5,000 mg/kg
White Mineral Oil	Dermal LD <sub>50</sub>	Rabbit	> 2,000 mg/kg
White Mineral Oil	LC <sub>50</sub> (4 hr, Mists)	Rat	> 5.2 mg/L



**Product Name: < 25 Volume Hair Developer  
And Other Products Containing  
<8% Hydrogen Peroxide (99-028)**

**Skin Corrosion/Irritation:**

*Hydrogen Peroxide:* 3-8% - Not Irritating; 10% - Slightly Irritating; 35% - Moderately Irritating (1.6/8.0); >50% - Corrosive  
*Mineral Oil:* Not Irritating

**Serious Eye Damage/Irritation:**

*Hydrogen Peroxide:* 5% - Slightly Irritating; 8% - Moderately Irritating; 10% - Highly Irritating; 12% - Corrosive  
*Mineral Oil:* Slightly Irritating

**Skin Sensitization:**

*Hydrogen Peroxide:* Not considered to be a sensitizer  
*Mineral Oil:* Not considered to be a sensitizer

**CHRONIC HEALTH HAZARDS:**

**REPEAT DOSE TOXICITY:**

NOAEL (Hydrogen Peroxide, oral): 100 ppm (26 mg/kg bw male mice)  
LOAEL (Hydrogen Peroxide, oral): 300 ppm (76 mg/kg bw male mice)  
NOAEL (Mineral Oil, oral): 2 - 4,350 mg/kg bw male/female rats  
LOAEL (Mineral Oil, oral): 1.7 - 340 mg/kg/day male/female rats

**ASPIRATION:**

Aspiration of mineral oil into the lungs may cause chemical pneumonitis or pulmonary edema. As a complete mixture, low volume developers containing mineral oil are not expected to pose an aspiration hazard.

**CARCINOGENICITY:**

Component Name (CAS-No.)	OSHA	ACGIH	NTP	IARC
Hydrogen Peroxide (7722-84-1)	--	TLV-A3	--	IARC-3
Mineral Oils, highly refined	--	TLV-A4	--	IARC-3

Notes:

ACGIH TLV-A3 - This reference indicates that the material is "Confirmed Animal Carcinogen with Unknown Relevance to Humans".

ACHIH TLV-A4 - This reference indicates that the material is "Not Classifiable as a Human Carcinogen".

IARC-3 - This reference indicates that the material is "Unclassifiable as to Carcinogenicity to Humans".

**MUTAGENICITY:**

Hydrogen peroxide (in high percentages) has been shown to be a mutagen in a variety of *in vitro* test systems. Available studies are not in support of a significant mutagenicity for hydrogen peroxide under *in vivo* conditions.

Mineral Oil has provided negative results in a variety of *in vitro* tests.

**REPRODUCTIVE TOXICITY:**

Mineral Oil: No adverse effects (NOAEL > 4,350 mg/kg bw)

**DEVELOPMENTAL TOXICITY/TERATOGENICITY:**

Mineral Oil: No maternal toxicity or teratogenic effects (NOAEL > 4,350 mg/kg bw)

---

**SECTION 12: ECOLOGICAL INFORMATION**

---

Contact with the environment should be avoided. Spills and leaks should be immediately cleaned up and removed. Published information regarding ingredients listed in this document are found below; where data is not listed, documentation was unavailable.



## ACUTE AND PROLONGED TOXICITY TO FISH

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Hydrogen Peroxide	LC <sub>50</sub> (US EPA)	16.4 mg/l	Pimephales promelas	96 h
Hydrogen Peroxide	LC <sub>50</sub>	37.4 mg/L	Ictalurus punctatus	96 h
Mineral Oil	LC <sub>50</sub>	> 1000 mg/L	Oncorhynchus mykiss	96 h

## ACUTE TOXICITY TO AQUATIC INVERTEBRATES

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Hydrogen Peroxide	EC <sub>50</sub>	2.0-2.6 mg/L	Daphnia magna	24 h
Hydrogen Peroxide	EC <sub>50</sub> (US EPA)	2.4 mg/L	Daphnia pulex	48 h
Mineral Oil	EC <sub>50</sub>	> 100 mg/L	Daphnia magna	48 h

## TOXICITY TO AQUATIC PLANTS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Hydrogen Peroxide	EC <sub>50</sub> (OECD 201)	2.5 mg/L	Chlorella vulgaris	72 h
Hydrogen Peroxide	EC <sub>50</sub> (OECD 201)	0.63 mg/L	Sceletonema costatum	72 h
Mineral Oil	EC <sub>50</sub> (OECD 201)	≥ 100 mg/L	Pseudokirchneriella subcapitata	72 h

## TOXICITY TO MICROORGANISMS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Hydrogen Peroxide	EC <sub>50</sub> (OECD 209)	466 mg/l	Activated Sludge	30 min

## PERSISTENCY AND DEGRADABILITY:

### *Hydrogen Peroxide:*

Hydrogen peroxide is biologically degradable. Hydrogen peroxide can be considered as readily biodegradable in the aquatic systems. In soil hydrogen peroxide is normally a short-lived substance. Hydrogen peroxide degrades in the atmosphere within the light spectrum with hydroxyl radicals in the gas phase and subsequent photolysis.

### *Mineral Oil:*

Mineral oil has shown evidence of primary biodegradability. Mineral oil has little to no tendency to partition to air, but any material that does will be rapidly photodegraded.

## BIOACCUMULATIVE POTENTIAL:

Hydrogen peroxide is reactive and short-lived polar substance and no bioaccumulation is expected. The estimated log K<sub>ow</sub> of about -1.5 indicates negligible potential of bioconcentration in aquatic organisms. BCFs calculated according to the TGD for fish and earthworm are low, 1.4 and 3.3, respectively.

## 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:** Containers should be completely closed and of sturdy construction. Packaging materials should not include incompatible materials noted in Section 10. Plastic packaging is recommended.

**WASTE DISPOSAL METHOD:** Low volume developer products are non-hazardous materials when intended for disposal. Although dilute (<8%) hydrogen peroxide solutions are not regulated as hazardous wastes under RCRA, physical and/or chemical deactivation/degradation of the peroxide solution is the recommended method of treatment and disposal for these products.

## RCRA HAZARD CLASS: Not regulated

Follow all local governmental requirements intended for disposal.

---

## SECTION 14: TRANSPORT INFORMATION

---

### 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

---

## SECTION 15: REGULATORY INFORMATION

---

**National Fire Protection Association Codes:** Health: 2 Fire: 0 Reactivity: 1 Other: None

**Workplace Hazardous Materials Identification System:** Class D; Division 2, Subdivision B; Eye Irritation

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

---

## SECTION 16: OTHER INFORMATION

---

**PREPARATION INFORMATION:** This document replaces the version dated June 22, 2009 and all previous versions of safety data sheets related to this product.

Preparer: Ronald Weslosky/Chandra L. Jennings



## MATERIAL SAFETY DATA SHEET

MSDS DATE: June 22, 2009

MSDS # 99-029

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

#### **Product Name: 30-40 Volume Developer and Other Products Containing $\geq$ 8% Hydrogen Peroxide**

Recommendations on use: For promoting deposit of hair color and lightening of hair.

**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. Oxidizer. Keep in a cool place. Avoid contamination.

Refer to product insert or container for additional use warnings.

### SECTION 2: HAZARDS IDENTIFICATION

White, creamy, thick liquid with a faint odor.

May cause skin and severe eye irritation. Harmful if swallowed. May cause severe irritation of gastric mucous membranes if swallowed. Prolonged contact with skin may whiten skin and cause burns. Decomposition yields oxygen and may support combustion.

**OSHA** Oxidizer, Irritant; **DOT** 5.1 Oxidizer; **WHMIS** Class C; Oxidizing Material, Class D; Division 2, Subdivision B; Skin or Eye Irritation; **NFPA** Health: 2 Fire: 0 Reactivity: 1 Other: OX; See section fifteen of this document (Regulatory Information).

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Hydrogen Peroxide	7722-84-1	$\geq$ 8

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.

### SECTION 4: FIRST AID MEASURES

**EYES:** Immediately flush with luke-warm water for fifteen minutes and get medical attention if irritation persists. If the eyes or face becomes swollen during or following use, consult a physician or emergency room immediately.

**SKIN:** Immediately flush with luke-warm water and get medical attention if irritation persists. If discomfort persists and/or the skin reaction worsens, contact a physician immediately. In cases where discomfort persists and/or medical attention is sought, do not use hair color products again until the specific nature of the skin reaction and the causative agent has been identified by a dermatologist and appropriate medical advice provided.

**INGESTION:** If swallowed, drink one or two glasses of water or milk, consult a physician. Do not induce vomiting.

**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, or water spray. Selection of a fire extinguisher should be appropriate to address the location of the fire and other materials involved.

**SPECIAL FIRE FIGHTING PROCEDURES:** Upon decomposition, peroxides yield oxygen and may thereby support the combustion of flammable and combustible materials. Extinguish fires with media appropriate for the burning material.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Caution: Oxidizer – Residual product on towels, sponges, or mops may cause fire. Rinse towels thoroughly before disposal. Rinse sponges and mops thoroughly before storage.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal degradation may produce oxides of carbon and/or nitrogen; hydrocarbons and/or derivatives. Thermal degradation may also produce oxides of silicone.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**ACCIDENTAL RELEASE MEASURES:** For small spills, absorb with inert material. Dilute with water. Absorb liquid and scrub the area with detergent. Rinse paper towels, sponges, or mops thoroughly prior to disposal or storage. For larger spills, dike and contain the free liquid. Solidify 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.

---

## SECTION 7: HANDLING AND STORAGE

---

**HANDLING AND STORAGE:** Do not expose to heat and flame. Keep in a cool place. Use only in well ventilated areas. Avoid contamination with combustible organic materials (e.g. oil, sawdust, damp paper towels, etc...), metal, powder or reducing agents. Contamination may cause decomposition, leading to fire. Decomposition of oxidizing material releases oxygen which may intensify existing fires. Keep closed when not in use. Store in the original tightly capped containers away from sunlight, heat, sparks, and flame. Do not store any tint, lightener lotion or bleach powder after it has been mixed with developer; the container may rupture. Never return unused material to original container. Empty containers should be rinsed with water before discarding. Residual product on towels, sponges, or mops may cause fire. Rinse towels thoroughly before disposal. Rinse sponges and mops thoroughly before storage. Keep container closed when not in use. Decomposition of hydrogen peroxide may occur with increase in pressure and possible container rupture.

**OTHER PRECAUTIONS:** None known

---

## 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 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. Safety shower and eyewash station should be immediately available for manufacturing operations.



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

**Occupational Exposure Values:**

<b>OSHA PEL-TWA:</b>	Hydrogen Peroxide: 1 ppm
<b>ACGIH TLV-TWA:</b>	Hydrogen Peroxide: 1 ppm
<b>OSHA PEL/ACGIH TLV STEL :</b>	None Established
<b>OSHA PEL/ACGIH TLV CEILING:</b>	None Established

---

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

---

**APPEARANCE AND ODOR:** White, creamy, thick liquid with a faint odor.

**PHYSICAL STATE:** 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:** Miscible      **pH:** 2.4 – 2.8

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

**FLASH POINT:** F: >200 C: >93.4      **METHOD USED:** Closed Cup

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

---

**SECTION 10: STABILITY AND REACTIVITY**

---

**STABILITY:** Stable

**CONDITIONS TO AVOID (STABILITY):** Heat and sunlight.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Reducing agents (e.g. waving lotions); metals (e.g. iron and zinc); and organic compounds (including flammable and combustibles). Do not use metallic bowls and stirrers.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxygen.

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



---

## SECTION 11: TOXICOLOGICAL INFORMATION

---

### 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, inhalation

### POTENTIAL HEALTH EFFECTS:

**EYES:** Mild to moderate transient irritation

**SKIN:** Irritation or sensitization in sensitive individuals

**INGESTION:** Gastrointestinal disturbance and diarrhea

**INHALATION:** Mild transient respiratory irritation

**ACUTE HEALTH HAZARDS:** May cause skin and severe eye irritation. Harmful if swallowed. May cause severe irritation of gastric mucous membranes if swallowed.

**CHRONIC HEALTH HAZARDS:** None known.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known.

---

## SECTION 12: ECOLOGICAL INFORMATION

---

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.

---

## SECTION 13: DISPOSAL CONSIDERATIONS

---

**WASTE DISPOSAL METHOD:** Products in this category are RCRA ignitable (D001) hazardous wastes when intended for disposal. Physical and/or chemical deactivation/degradation is the recommended method of treatment and disposal for these products.

**RCRA HAZARD CLASS:** D001

Follow all local governmental requirements intended for disposal.

---

## **SECTION 14: TRANSPORT INFORMATION**

### **North American Ground Transportation**

- **In Consumer Packaging:** ORM-D; Consumer Commodity
- **OTHER THAN CONSUMER PACKAGING:**  
**ID NUMBER:** UN 2984  
**PROPER SHIPPING NAME:** Hydrogen Peroxide, aqueous solutions  
**HAZARD CLASS:** 5.1  
**PACKING GROUP:** III  
**LABEL STATEMENTS:** Oxidizer 5.1 (see Division 5.1 label)

### **Transport Via Water**

- **In Consumer Packaging:** Limited Quantity < 5 L  
**ID NUMBER:** UN 2984  
**PROPER SHIPPING NAME:** Hydrogen Peroxide, aqueous solutions  
**HAZARD CLASS:** 5.1  
**PACKING GROUP:** III  
**LABEL STATEMENTS:** LTD QTY
- **OTHER THAN CONSUMER PACKAGING:**  
**ID NUMBER:** UN 2984  
**PROPER SHIPPING NAME:** Hydrogen Peroxide, aqueous solutions  
**HAZARD CLASS:** 5.1  
**PACKING GROUP:** III  
**LABEL STATEMENTS:** Oxidizer 5.1 (see Division 5.1 label)

### **Transport Via Air**

- **In Consumer Packaging:** Fully Regulated (see classification for "other than consumer packaging" below)
  - Limited quantity (maximum net quantity per package) = 1 L
- **OTHER THAN CONSUMER PACKAGING:**  
**ID NUMBER:** UN 2984  
**PROPER SHIPPING NAME:** Hydrogen Peroxide, aqueous solutions  
**HAZARD CLASS:** 5.1  
**PACKING GROUP:** III  
**LABEL STATEMENTS:** Oxidizer 5.1 (see Division 5.1 label)

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

## **LABELS FOR THIS PRODUCT WHEN NOT SHIPPING AS A CONSUMER COMMODITY**

**Label for fully regulated materials, Division 5.1:**





---

## **SECTION 15: REGULATORY INFORMATION**

---

**National Fire Protection Association Codes:** Health: 2 Fire: 0 Reactivity: 1 Other: OX

**Hazardous Materials Identification System:** Class C; Oxidizing Material, Class D; Division 2, Subdivision B; Skin or Eye Irritation

**Occupational Safety and Health Administration:** Oxidizer, irritant

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

---

## **SECTION 16: OTHER INFORMATION**

---

**PREPARATION INFORMATION:** This document replaces the version dated September 27, 2004 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: March 17, 2008**

**MSDS # 99-030**

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

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

---

**Product Name: Oxidizing Hair Bleach Products**

Recommendations on use: For lightening of hair color

**CAUTION:** Oxidizing solid which in itself is not necessarily combustible, but may generally cause or contribute to the combustion of other materials by yielding oxygen. Store at room temperature. Keep from heat and moisture. Do not use metal utensils with this product. For external use only. Use only as directed. Keep out of reach of children.

Refer to product insert or container for additional use warnings.

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

Finely divided, free-flowing powder. May be white or colored and could have a possible ammonia odor or enhanced fragrance.

Decomposes in contact with moisture/excessive heat. May cause release of oxygen and oxides of sulfur which support combustion. Decomposition could form a high temperature melt. See section ten of this document (Stability and Reactivity).

May have irritating properties to eyes/respiratory system and skin. May have the potential to cause skin/respiratory sensitization.

**OSHA** reactive substance, oxidizer; **DOT** 5.1 Oxidizer; **WHMIS** Class C; Oxidizing material. See section fifteen of this document (Regulatory Information).

---

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

---

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Potassium Persulfate	7727-21-1	<61
Sodium Persulfate	7775-27-1	<11

---

**SECTION 4: FIRST AID MEASURES**

---

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

**SKIN:** Immediately flush with luke-warm water and get medical attention if irritation persists.

**INGESTION:** If swallowed, do not induce vomiting. Call a physician, hospital, emergency room or poison control center immediately. Get prompt medical attention.

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

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Acute health hazards may be delayed. Most common symptoms include irritating properties to eyes/respiratory system and skin.



---

## SECTION 5: FIRE-FIGHTING MEASURES

---

**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:** Upon decomposition, persulfates yield oxygen and may thereby stimulate combustion of flammable and combustible materials. Extinguish fires with media appropriate for the burning material.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Caution: Product contains oxidizing materials. Residual product on towels, sponges or mops may cause fire. Rinse towels thoroughly before disposal. Rinse sponges and mops thoroughly before storage. Persulfate compounds may ignite and undergo decomposition in the presence of moisture and heat. Spray and flood decomposing material with large quantities of water.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxygen, chlorine, oxides of sulfur, sodium oxide and ammonia

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

**ACCIDENTAL RELEASE MEASURES:** For small spills, wipe up with damp paper towels or sponge. Wash area completely with water. Rinse paper towels, sponges or mops thoroughly prior to disposal or storage. For larger quantities, sweep up and place in UN specification drum(s) for disposal. During clean-up, do not contaminate powder with organic material. Keep drummed waste cool and dry pending disposal.

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

---

## SECTION 7: HANDLING AND STORAGE

---

**HANDLING AND STORAGE:** Use only with adequate ventilation and avoid inhalation. Avoid contact with eyes and skin (other than areas of application). Do not inhale or ingest. Prepare and use in a well-ventilated area. Do not store with or near fuels, solvents or other organic materials. Avoid heat, moisture and reducing agents.

Refer to product insert or container for additional use warnings.

**OTHER PRECAUTIONS:** Do not allow stored material to come into contact with moisture (keep lids properly affixed on product stored in plastic tubs). Do not store metal utensils inside containers of product.

---

## 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.

**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. Particulate filtering cartridges should be utilized with air-purifying respiratory protection.

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



**SKIN PROTECTION:** Plastic or rubber gloves should be worn during product application and preparation. 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:** Apron may be used for product handling. Tyvek clothing may also be suitable for handling large quantities of material.

**WORK HYGIENIC PRACTICES:** Ensure all work surfaces are clean. Metal instruments should not be used with this product or stored inside product containers.

**Occupational Exposure Values:**

<b>OSHA PEL-TWA:</b>	None Established
<b>ACGIH TLV-TWA:</b>	<b>Sodium Persulfate//Potassium Persulfate: 0.1 mg/m3</b>
<b>OSHA PEL/ACGIH TLV STEL :</b>	None Established
<b>OSHA PEL/ACGIH TLV CEILING:</b>	None Established

---

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

---

**APPEARANCE AND ODOR:** Finely divided, free-flowing powder. May be white or colored and could have a possible ammonia odor or enhanced fragrance.

**PHYSICAL STATE:** Finely divided, free-flowing powder (solid).

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

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

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

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

**SPECIFIC GRAVITY (H2O = 1):** >1      **EVAPORATION RATE:** N/A

**SOLUBILITY IN WATER:** Approx 80% water soluble

**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

---

**SECTION 10: STABILITY AND REACTIVITY**

---

**STABILITY:** Material is stable at room temperature and under dry conditions. Heat and/or moisture may cause instability.

**CONDITIONS TO AVOID (STABILITY):** Heat, moisture and contamination with organic materials and metal utensils.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Organic compounds (including flammable and combustible materials) and reducing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxygen, chlorine, oxides of sulfur, sodium oxide and ammonia

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



---

## SECTION 11: TOXICOLOGICAL INFORMATION

---

### CARCINOGENICITY:

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

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

**ROUTES OF EXPOSURE:** Inhalation, eyes, skin

### POTENTIAL HEALTH EFFECTS:

**EYES:** Irritation

**SKIN:** Irritation, possible allergic dermatitis

**INGESTION:** Harmful if swallowed, slightly toxic

**INHALATION:** Irritation and possible sensitization

**ACUTE HEALTH HAZARDS:** Irritation of eyes, skin and mucous membranes. Possible irritant/allergic dermatitis and respiratory signs and symptoms, the onset of which may be delayed.

**CHRONIC HEALTH HAZARDS:** Possible allergic dermatitis. Possible respiratory sensitization could occur.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Existing dermatological conditions (such as eczema) and respiratory conditions (such as bronchial asthma and/or bronchitis) may be exacerbated.

---

## SECTION 12: ECOLOGICAL INFORMATION

---

The product itself has not been tested as a whole, but the following results have been associated with some of its constituents:

Potassium/Sodium Persulfate:

Bluegill sunfish, 96-hour LC50 = 771 mg/L

Rainbow Trout, 96-hour LC50 = 163 mg/L

Daphnia, 48-hour LC50 = 133 mg/L

Grass shrimp, 96 hour LC50 = 519 mg/L

**CHEMICAL FATE:** Biodegradability does not apply to inorganic substances.

---

## SECTION 13: DISPOSAL CONSIDERATIONS

---

**WASTE DISPOSAL METHOD:** Hair bleaching products are ignitable RCRA hazardous wastes when intended for disposal. Physical and/or chemical deactivation/degradation is the required method of treatment and disposal.

**RCRA HAZARD CLASS:** D001

Follow all local governmental requirements intended for disposal.



---

## SECTION 14: TRANSPORT INFORMATION

---

### North American Ground Transportation

- **In Consumer Packaging:** ORM-D; Consumer Commodity
- **OTHER THAN CONSUMER PACKAGING:**
  - ID NUMBER:** UN 1479
  - PROPER SHIPPING NAME:** Oxidizing solid, n.o.s.
  - TECHNICAL NAME:** (Potassium Persulfate, Sodium Persulfate)
  - HAZARD CLASS:** 5.1
  - PACKING GROUP:** III
  - LABEL STATEMENTS:** Oxidizer 5.1 (see label on next page)

### Transport Via Water

- **In Consumer Packaging:** Limited Quantity < 5 kg
  - ID NUMBER:** UN 1479
  - PROPER SHIPPING NAME:** Oxidizing solid, n.o.s.
  - TECHNICAL NAME:** (Potassium Persulfate, Sodium Persulfate)
  - HAZARD CLASS:** 5.1
  - PACKING GROUP:** III
  - LABEL STATEMENTS:** Oxidizer 5.1 or LTD QTY, if applicable (see Division 5.1 label on next page)
- **OTHER THAN CONSUMER PACKAGING:**
  - ID NUMBER:** UN 1479
  - PROPER SHIPPING NAME:** Oxidizing solid, n.o.s.
  - TECHNICAL NAME:** (Potassium Persulfate, Sodium Persulfate)
  - HAZARD CLASS:** 5.1
  - PACKING GROUP:** III
  - LABEL STATEMENTS:** Oxidizer 5.1 (see label on next page)

### Transport Via Air

- **In Consumer Packaging:** Fully Regulated (see classification for “other than consumer packaging” below)
  - Limited quantity (maximum net quantity per package) = 10 kg
- **OTHER THAN CONSUMER PACKAGING:**
  - ID NUMBER:** UN 1479
  - PROPER SHIPPING NAME:** Oxidizing solid, n.o.s.
  - TECHNICAL NAME:** (Potassium Persulfate, Sodium Persulfate)
  - HAZARD CLASS:** 5.1
  - PACKING GROUP:** III
  - LABEL STATEMENTS:** Oxidizer 5.1 (see label on next page)

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

# L'ORÉAL U S A

## LABELS FOR THIS PRODUCT WHEN *NOT* SHIPPING AS A CONSUMER COMMODITY

Label for fully regulated materials, Division 5.1:



---

### SECTION 15: REGULATORY INFORMATION

---

**National Fire Protection Association Codes:** Health: 1 Fire: 0 Reactivity: 1 Other: OX

**Hazardous Materials Identification System:** Class C; Oxidizing material

**Occupational Safety and Health Administration:** Oxidizing material/reactive, irritant, possible sensitizer, slightly toxic

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

---

### SECTION 16: OTHER INFORMATION

---

**PREPARATION INFORMATION:** This document replaces the version dated September 15, 2004 and all previous versions of material safety data sheets related to this product.

Preparer: 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****#03-045**

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

**IDENTITY**

Cream Bleach Oils and Color Thickeners  
 Containing Ethoxylated Surfactants

*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 June 7, 2004
	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)
Polyoxyethylene Decyl Ethers				<75%

**Section III - Physical/Chemical Characteristics**

Boiling Point	~190°F	Specific Gravity (H2O = 1)	~1
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water

Miscible pH = 9.0-11.5

Appearance and Odor

Clear, water-thin liquid with an ammonical odor.

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

Flash Point (Method Used) >200°F (closed cup)	Flammable Limits None	LEL N/A	UEL N/A
--	--------------------------	------------	------------

Extinguishing Media

Not applicable.

Special Fire Fighting Procedures

Not applicable.

Unusual Fire and Explosion Hazards

Not applicable.

**Section V - Reactivity Data**

#03-045

Stability	Unstable		Conditions to Avoid	Avoid excessive heat and/or cold.
	Stable	X		
Incompatibility (Materials to Avoid)				
Avoid oxidizing agents and nitric acid.				
Hazardous Decomposition or Byproducts				
(Thermal decomposition) ammonia, 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	Not likely.
Health Hazards (Acute and Chronic)			
Danger: Corrosive. May cause burns of the skin, eyes, and other mucous membranes. Harmful if swallowed.			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

## Signs and Symptoms of Exposure

Contact with skin, eyes, and other mucous membranes may produce chemical burns which, if not promptly treated, may be accompanied by ulceration, necrosis, and scarring. Ingestion may produce burns, ulceration, and/or perforation of the alimentary canal followed by shock, circulatory collapse, and possibly death.

## Medical Conditions Generally Aggravated by Exposure

Preexisting dermatitis of the scalp and/or skin may be exacerbated by contact with this product.

## Emergency and First Aid Procedure

If swallowed and if victim is conscious, immediately rinse mouth with water, then drink one or two glasses of water or milk. Call a physician, hospital emergency room, or poison control center immediately. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person. If in eyes or on skin, flush with water for at least 15 minutes. Call a physician, hospital emergency room or poison control center immediately. Get medical attention. If affected by inhalation, move to fresh air.

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

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

Spills of this product should be diked and contained, treated with dilute acetic acid or sodium dihydrogen phosphate to neutralize the excess ammonia, and flushed with excess water to the sanitary sewer system. Spilled material may also be solidified and placed in appropriate UN specification drums for disposal.

## Waste Disposal Method

This product is an EPA corrosive (D002) hazardous waste when intended for disposal. Accordingly, disposal should be undertaken at a hazardous waste facility by neutralization, incineration, and/or other treatment and disposal in accordance with RCRA regulations.

## Precautions to be Taken in Handling and Storage

Avoid contact with eyes and skin. Do not taste, swallow, or inhale. Store in a cool location away from oxidizing agents and nitric acid.

## Other Precautions

For external use only. Use only as directed. Keep out of reach of children.



## Section VIII - Control Measures

#03-045

### Respiratory Protection (Specify Type)

For manufacturing/filling, wear a NIOSH-approved respirator if constituent TLVs are exceeded. For spill management, use an approved self-contained breathing apparatus. For product use, respiratory protection is generally unnecessary.

Ventilation	Local Exhaust	Generally Acceptable	Special
	Mechanical(General)	Recommended	Other

### Protective Gloves

Rubber or neoprene gloves.

### Other Protective Clothing or Equipment

Safety glasses with side shields and protective clothing for bulk quantities.

### Work/Hygienic Practices

OSHA hazard classification: Corrosive

DOT classification: Bulk - Corrosive liquid, basic, organic, N.O.S.  
(Polyoxyethylene Decyl Ethers) 8 UN 3267 PGII  
Finished Product - Consumer Commodity, ORM-D.



**MATERIAL SAFETY DATA SHEET**  
**MSDS DATE: March 17, 2008**

**MSDS # 08-048**

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

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

---

**Product Name: Self-heating Hair Bleaches**

Recommendations on use: For lightening of hair color

**CAUTION:** Self-heating solid which can lead to spontaneous combustion. Store at room temperature. Keep from heat and moisture. Do not use metal utensils with this product. For external use only. Use only as directed. Keep out of reach of children.

Refer to product insert or container for additional use warnings.

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

Thick, grainy hair paste or finely divided powder. May be white or colored and could have a possible ammonia odor or enhanced fragrance.

Could decompose in contact with moisture/excessive heat. May cause release of oxygen and oxides of sulfur which support combustion. Decomposition could form a high temperature melt. See section ten of this document (Stability and Reactivity).

May have irritating properties to eyes/respiratory system and skin. May have the potential to cause skin/respiratory sensitization. Respiratory sensitization is more common when using powered forms of hair bleach products.

**OSHA** reactive substance; **DOT** 4.2 spontaneously combustible solid; **WHMIS** Class B Division 6 Flammable Reactive Material (solid). See section fifteen of this document (Regulatory Information).

---

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

---

<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>% WT</b>
Potassium Persulfate	7727-21-1	<61
Sodium Persulfate	7775-27-1	<11

---

**SECTION 4: FIRST AID MEASURES**

---

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

**SKIN:** Wash off with water. Get medical attention if irritation persists.

**INGESTION:** If swallowed, do not induce vomiting. Call a physician, hospital, emergency room or poison control center immediately. Get prompt medical attention.

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



**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Acute health hazards may be delayed. Most common symptoms include irritating properties to eyes/respiratory system and skin.

---

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

---

**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:** Upon decomposition, persulfates yield oxygen and may thereby stimulate combustion of flammable and combustible materials. Extinguish fires with media appropriate for the burning material.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Caution: Product contains oxidizing materials, but is not an oxidizing material itself. Residual product on towels, sponges or mops may cause fire. Rinse towels thoroughly before disposal. Rinse sponges and mops thoroughly before storage. Persulfate compounds may ignite and undergo decomposition in the presence of moisture and heat. Spray and flood decomposing material with large quantities of water.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxygen, chlorine, oxides of sulfur, sodium oxide and ammonia

---

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

---

**ACCIDENTAL RELEASE MEASURES:** For small spills, wipe up with damp paper towels or sponge. Wash area completely with water. Rinse paper towels, sponges or mops thoroughly prior to disposal or storage. For larger quantities, pick up with shovels or sponges and place in UN specification drum(s) for disposal. During clean-up, do not contaminate product with organic material. Keep drummed waste cool and dry pending disposal.

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

---

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

---

**HANDLING AND STORAGE:** Use only with adequate ventilation and avoid inhalation. Avoid contact with eyes and skin (other than areas of application). Do not inhale or ingest. Prepare and use in a well-ventilated area. Do not store with or near fuels, solvents or other organic materials. Avoid heat, moisture and reducing agents.

Refer to product insert or container for additional use warnings

**OTHER PRECAUTIONS:** Do not allow stored material to come into contact with moisture (keep lids properly affixed on product stored in plastic tubs). Do not store metal utensils inside containers of product.

---

## **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.

**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. Particulate filtering cartridges may be utilized with air-purifying respiratory protection.

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



**SKIN PROTECTION:** Plastic or rubber gloves should be worn during product application and preparation. 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:** Apron may be used for product handling. Tyvek clothing may also be suitable for handling large quantities of material.

**WORK HYGIENIC PRACTICES:** Ensure all work surfaces are clean. Metal instruments should not be used with this product or stored inside product containers.

**Occupational Exposure Values:**

<b>OSHA PEL-TWA:</b>	None Established
<b>ACGIH TLV-TWA:</b>	<b>Sodium Persulfate//Potassium Persulfate: 0.1 mg/m<sup>3</sup></b>
<b>OSHA PEL/ACGIH TLV STEL :</b>	None Established
<b>OSHA PEL/ACGIH TLV CEILING:</b>	None Established

---

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

---

**APPEARANCE AND ODOR:** Thick, grainy paste or free-flowing powder. May be white or colored and could have a possible ammonia odor or enhanced fragrance.

**PHYSICAL STATE:** Finely divided, free-flowing powder or thick, grainy paste (solid)

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

**MELTING POINT:** Decomposes

**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      **SOLUBILITY IN WATER:** Approx 80% water soluble

**EVAPORATION RATE:** N/A

**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

---

**SECTION 10: STABILITY AND REACTIVITY**

---

**STABILITY:** Material is stable at room temperature and under dry conditions. Heat and/or moisture may cause instability.

**CONDITIONS TO AVOID (STABILITY):** Heat, moisture, contamination with organic materials and metal utensils.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Organic compounds (including flammable and combustible materials) and reducing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxygen, chlorine, oxides of sulfur, sodium oxide and ammonia

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



---

## SECTION 11: TOXICOLOGICAL INFORMATION

---

### CARCINOGENICITY:

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

**ROUTES OF EXPOSURE:** Inhalation, eyes, skin

### POTENTIAL HEALTH EFFECTS:

**EYES:** Irritation

**SKIN:** Irritation, possible allergic dermatitis

**INGESTION:** Harmful if swallowed, slightly toxic

**INHALATION:** Irritation and possible sensitization (more common with powdered formulations)

**ACUTE HEALTH HAZARDS:** Possibility of eye/skin irritation. Possible allergic dermatitis.

**CHRONIC HEALTH HAZARDS:** Possible allergic dermatitis. Possible respiratory sensitization which is more common with the use of powdered hair bleaches.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Existing dermatological conditions (such as eczema) and respiratory conditions (such as bronchial asthma and/or bronchitis) may be exacerbated.

---

## SECTION 12: ECOLOGICAL INFORMATION

---

The product itself has not been tested as a whole, but the following results have been associated with some of its constituents:

Potassium/Sodium Persulfate:

Bluegill sunfish, 96-hour LC50 = 771 mg/L

Rainbow Trout, 96-hour LC50 = 163 mg/L

Daphnia, 48-hour LC50 = 133 mg/L

Grass shrimp, 96 hour LC50 = 519 mg/L

**CHEMICAL FATE:** Biodegradability does not apply to inorganic substances.

---

## SECTION 13: DISPOSAL CONSIDERATIONS

---

**WASTE DISPOSAL METHOD:** Hair bleaching products are ignitable RCRA hazardous wastes when intended for disposal. Physical and/or chemical deactivation/degradation is the required method of treatment and disposal.

**RCRA HAZARD CLASS:** D001

Follow all local governmental requirements intended for disposal.



---

## **SECTION 14: TRANSPORT INFORMATION**

---

### **North American Ground Transportation**

- **In Consumer Packaging:** Fully Regulated (see reference to “other than consumer packaging” below)
- **OTHER THAN CONSUMER PACKAGING:**
  - ID NUMBER:** UN 3088
  - PROPER SHIPPING NAME:** Self-heating, solid, organic, n.o.s.
  - TECHNICAL NAME:** (Potassium Persulfate, Sodium Persulfate)
  - HAZARD CLASS:** 4.2
  - PACKING GROUP:** III
  - LABEL STATEMENTS:** Spontaneously Combustible (see label on next page))

### **Transport Via Water**

- **In Consumer Packaging:** Fully Regulated (see reference to “other than consumer packaging” below)
- **OTHER THAN CONSUMER PACKAGING:**
  - ID NUMBER:** UN 3088
  - PROPER SHIPPING NAME:** Self-heating solid, organic, n.o.s.
  - TECHNICAL NAME:** (Potassium Persulfate, Sodium Persulfate)
  - HAZARD CLASS:** 4.2
  - PACKING GROUP:** III
  - LABEL STATEMENTS:** Spontaneously Combustible (see label on next page)

### **Transport Via Air**

- **In Consumer Packaging:** Fully Regulated (see classification for “other than consumer packaging” below)
- **OTHER THAN CONSUMER PACKAGING:**
  - ID NUMBER:** UN 3088
  - PROPER SHIPPING NAME:** Self-heating solid, organic, n.o.s.
  - TECHNICAL NAME:** (Potassium Persulfate, Sodium Persulfate)
  - HAZARD CLASS:** 4.2
  - PACKING GROUP:** III
  - LABEL STATEMENTS:** Spontaneously Combustible (see label on next page)

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

# L'ORÉAL U S A

## LABELS FOR THIS PRODUCT WHEN *NOT* SHIPPING AS A CONSUMER COMMODITY

Label for fully regulated materials, Division 4.2:



---

## SECTION 15: REGULATORY INFORMATION

---

**National Fire Protection Association Codes:** Health: 1 Fire: 0 Reactivity: 1 Other:  
**Hazardous Materials Identification System:** Class B Division 6 Flammable Reactive Material (solid)  
**Occupational Safety and Health Administration:** Reactive, irritant, possible sensitizer, slightly toxic  
**US DOT/ICAO/IMDG:** See section 14 above

---

## SECTION 16: OTHER INFORMATION

---

**PREPARATION INFORMATION:** This document represents an initial publication of this information.  
Preparer name: Chandra L. Jennings



**MATERIAL SAFETY DATA SHEET**  
**MSDS DATE: August 5, 2009**

**MSDS # 09-053**

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

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

---

**Product Name: Aqueous cosmetic liquids -- creams, gels and lotions  
containing <24% alcohol**

Recommendations on use: Personal care product used as a topical skin application for moisturization, sun protection and/or cosmetic skin treatment.

CAUTION: Avoid fire, flame, heat and other sources of ignition. For external use only. Use only as directed. Keep out of reach of children. Liquid dispensed from the container may be considered flammable until dry.

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

Cream, lotion or gel intended to be used as a topical skin application.

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

**OSHA** Flammable liquid; **DOT** Exempt as Class 3 flammable liquid; **WHMIS** Class B Division 2 flammable liquid; **NFPA** Flammable Liquid Class IC

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

---

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

---

<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>% WT</b>
Ethyl Alcohol	64-17-5	2 – 23.5
Cyclopentasiloxane	541-02-6	<1 -- 23

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.

---

**SECTION 4: FIRST AID MEASURES**

---

**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.



---

## 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 Flammable Liquid Class IC. Follow National Fire Protection Association Guidelines.

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

---

## 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 flammable 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:** Flammable until dry. 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 flammable 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:**

<b>OSHA PEL-TWA:</b>	1000 ppm Ethanol ; none cyclopentasiloxane
<b>ACGIH TLV-TWA:</b>	1000 ppm Ethanol ; none cyclopentasiloxane
<b>OSHA PEL/ACGIH TLV STEL:</b>	None Established
<b>OSHA PEL/ACGIH TLV CEILING:</b>	None Established

---

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

---

**APPEARANCE AND ODOR:** Colored or clear slightly viscous liquid with a mild, pleasant fragrance

**PHYSICAL STATE:** Product dispensed as a cream, lotion or gel

**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):** >1

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

**SOLUBILITY IN WATER:** Soluble

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

**FLASH POINT:** 80-140 F; 26-60 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



---

## 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 overexposure occurs

### 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. 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

---

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)

---

## SECTION 14: TRANSPORT INFORMATION

---

### 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.



---

## SECTION 15: REGULATORY INFORMATION

---

**National Fire Protection Association Codes:** Health: 2 Fire: 3 Reactivity: 0 Other: None  
**Hazardous Materials Identification System:** Class B Division 2 Flammable Liquid  
**Occupational Safety and Health Administration:** Flammable Liquid, Eye irritant, Possible Skin irritant  
**US DOT/ICAO/IMDG:** See section 14 above

---

## SECTION 16: OTHER INFORMATION

---

**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.

Author: Chandra L. Jennings



## MATERIAL SAFETY DATA SHEET

MSDS DATE: August 5, 2009

MSDS # 09-055

---

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

---

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

---

**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.

---

### SECTION 4: FIRST AID MEASURES

---

**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.



---

## 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

---

## 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





---

## 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.

---

## 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)

---

## SECTION 14: TRANSPORT INFORMATION

---

### 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.



---

## SECTION 15: REGULATORY INFORMATION

---

**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

---

## SECTION 16: OTHER INFORMATION

---

**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.

Author: Chandra L. Jennings



**MATERIAL SAFETY DATA SHEET**  
**MSDS DATE: August 5, 2009**

**MSDS # 09-056**

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

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

---

**Product Name: Combustible cosmetic liquids -- creams, gels and lotions**

Recommendations on use: Personal care product used as a topical skin application for moisturization, sun protection and/or cosmetic skin treatment.

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

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

Cream, lotion or gel intended to be used as a topical skin application.

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

**OSHA** Combustible liquid; **DOT** Combustible liquid; **WHMIS** Class B Division 2 Combustible liquid; **NFPA** Combustible liquid Class IIIA

Causes eye irritation if product comes in 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	<1 -- 5

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.

---

**SECTION 4: FIRST AID MEASURES**

---

**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.

---

## 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 combustible liquid. Follow National Fire Protection Association Guidelines.

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

---

## 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 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 contact with 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.

# L'ORÉAL USA

## 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 slightly viscous liquid with a mild, pleasant fragrance

**PHYSICAL STATE:** Product dispensed as a cream, lotion or gel

**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):** >1

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

**SOLUBILITY IN WATER:** Soluble

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

**FLASH POINT:** >140 -- 200 F; >60 -- 94 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



---

## 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 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

---

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:** Products associated with this document are not considered hazardous as defined by 40 CFR Part 261 Subpart C. Acceptable methods of disposal of these non-hazardous materials include incineration and shredding for finished products/bulk material.

### RCRA HAZARD CLASS: NOT REGULATED

Follow all local governmental requirements intended for disposal.



---

## SECTION 14: TRANSPORT INFORMATION

---

### North American Ground Transportation

In accordance with US Department of Transportation 49 CFR 173.150(f), combustible liquids that do not meet the definition of any other hazard class are exempt from the Hazardous Materials Shipping Regulations in receptacles <450 L (<119 gallons) maximum capacity. Products associated with this document meet only the definitions of a combustible liquid and need not conform to other references under these regulations.

- **In Consumer Packaging:** EXEMPT
- **OTHER THAN CONSUMER PACKAGING : For containers >450 L (>119 gallons)**  
ID NUMBER: NA 1993  
PROPER SHIPPING NAME: Combustible liquid, n.o.s.  
TECHNICAL NAME: Ethanol solution  
HAZARD CLASS: None  
PACKING GROUP: III  
LABEL STATEMENTS: None

### Transport Via Water

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

### Transport Via Air (International)

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

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

---

## SECTION 15: REGULATORY INFORMATION

---

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

---

## SECTION 16: OTHER INFORMATION

---

**PREPARATION INFORMATION:** This is the first publication of this document.

Author: Chandra L. Jennings



---

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

---

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

---

**Product Name: Self-heating Hair Bleach Paste/Fully Regulated for Hazmat Transport**

**Recommendations on use:** For lightening of hair color.

**Restrictions on use:** Do not use metal utensils with this product. For external use only. Use only as directed. Refer to product insert or container for additional use warnings.

---

## SECTION 2: HAZARDS IDENTIFICATION

---

**Physical Hazard Signal Word: Danger**

**Health Hazard Signal Word: Warning**



**Hazard statements:** Self-Heating; may catch fire. Causes eye irritation. May cause an allergic skin reaction.

**Regulatory Classification:** OSHA Reactive substance, Eye irritant, Possible skin sensitizer; DOT 4.2 Spontaneously Combustible Solid; WHMIS Class B Division 6 Flammable Reactive Material (solid)

### Precautionary statements:

General statements: Keep out of reach of children. Read label before use.

### Prevention Statements for Self-heating Substances:

Keep cool. Protect from sunlight. Wear protective plastic gloves, such as nitrile, for all product handling. Safety glasses, goggles or faceshield should be worn for protection during the manufacture of this product. Selection of face/eye protection should be coordinated with manufacturing activities. This product is a self-heating solid which can lead to spontaneous combustion. Keep from heat and moisture. Do not use metal utensils.

Prevention statements for eye irritants (hazard category 2B) and skin sensitization: Wash hands thoroughly after handling. Do not eat, drink or smoke while using this product. Avoid breathing paste material. Contaminated work clothing should not be allowed out of the workplace. Wear protective plastic gloves, such as nitrile, during open handling.

Other hazards which will not result in classification: May have irritating properties to respiratory system. May have the potential to cause respiratory sensitization. **Respiratory sensitization is more common when using powered forms of hair bleach products. This document is written to reference paste products.**

---

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

---

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Potassium Persulfate	7727-21-1	≤31
Ammonium Persulfate	7727-54-0	≤16
Sodium Silicate	1344-09-8	≤16
Sodium Metasilicate	6834-92-0	≤6

---

## SECTION 4: FIRST AID MEASURES

---

### Response Precautionary Statements:

**IF IN EYES:** Rinse copiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 20 minutes or 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 OR HAIR:** Remove immediately all contaminated clothing. Rinse skin with water in an appropriate emergency shower. Wash with plenty of soap and water. If irritation or rash occurs: get medical advice/attention.

**IF SWALLOWED:** Do not induce vomiting. Consult a physician immediately.

**IF INHALED:** Move to fresh air. If irritation symptoms appear or there is difficulty in breathing, get medical attention immediately.

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

**SYMPTOMS/EFFECTS:** May cause eye irritation upon contact, possible respiratory system/skin irritation if over-exposed (manufacturing environment). May have the potential to cause skin/respiratory sensitization resulting in an allergic reaction.

**Wash contaminated clothing before re-use.**

---

## SECTION 5: FIRE-FIGHTING MEASURES

---

### **Notes for Non-Emergency Personnel:**

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, foam and/or water spray. 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:** Upon decomposition, persulfates yield oxygen and may thereby stimulate combustion of flammable and combustible materials. Extinguish fires with media appropriate for the burning material.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Product contains oxidizing materials, but is not an oxidizing material itself. Residual product on towels, sponges or mops may cause fire. Rinse towels thoroughly before disposal. Rinse sponges and mops thoroughly before storage. Persulfate compounds may ignite and undergo decomposition in the presence of moisture and heat. Spray and flood decomposing material with large quantities of water. May cause release of oxygen and oxides of sulfur which support combustion. Decomposition could form a high temperature melt. See section ten of this document (Stability and Reactivity).

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxygen, chlorine, oxides of sulfur, sodium oxide and ammonia

---

## 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 can not be controlled. It is vital that sections 2, 5, 7 and 8 of this document be consulted before an accident occurs, to control any risks in handling self-heating materials.

If the location is not hazardous and only a small amount of material is spilled, control the spill using absorbent pads or towels and protective equipment as noted below. Prohibit discharge to drains, soil, surface and ground waters. Dispose in accordance with section 13 of this document. Metal utensils should not be utilized in spill clean-up. Care should be taken to isolate the material from moisture 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. Protective goggles or face shield is recommended for the control of paste materials.

### Notes for those trained to participate in an emergency:

**ACCIDENTAL RELEASE MEASURES:** Should a release of material occur, eliminate all sources of ignition. Isolate and contain the material with pads. Clean up the material with dry pads or paper towels. Place spent absorbent in UN specification drums for disposal. All precautions associated with controlling a self-heating substance should be employed during clean-up. Prohibit discharge to drains, soil, surface and ground waters. During clean-up, do not contaminate product with organic material. Keep drummed waste cool and dry pending disposal.

Recommendations for personal protective equipment selection are noted above. Non-sparking tools should be utilized in all clean-up. Metal utensils should not be utilized for spill clean up. Dispose in accordance with section 13 of this document.

---

## SECTION 7: HANDLING AND STORAGE

---

**Storage precautionary statements for self-reactive materials:** Maintain air gap between stacks and pallets of stored material. These materials should be stored at temperatures less than 100 F. Store away from fuels, solvents, organic materials and reducing agents. Keep segregated and store away from other materials. Avoid heat and moisture. Use only with adequate ventilation and avoid inhalation.

Avoid contact with eyes and skin (other than areas of application). Do not inhale or ingest. Prepare and use in a well-ventilated area.

Keep away from open drains and access to the environment. Refer to product insert or container for additional use warnings.

### General notes on storage:

**Incompatible materials:** Fuels, solvents, organic materials and reducing agents. Keep material segregated.

### General notes on handling:

Employees should 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. All manufacturing should be performed indoors, in an enclosed environment free from uncontrolled heat sources. Employees should be advised not to handle self-heating products in close proximity to incompatible materials.

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

Please refer to section 8 of this document for recommended equipment to be used in a manufacturing environment.

**OTHER PRECAUTIONS:** Do not allow stored material to come into contact with moisture (keep lids properly affixed on product stored in plastic tubs). Do not store metal utensils inside containers of product.

---

## 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.

**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. Particulate filtering cartridges may be utilized with air-purifying respiratory protection. Ammonia cartridges may also be useful.

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

**SKIN PROTECTION:** Plastic or rubber gloves should be worn during product application and preparation. 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:** Apron may be used for product handling. Tyvek clothing may also be suitable for handling large quantities of material.

**WORK HYGIENIC PRACTICES:** Ensure all work surfaces are clean. Metal instruments should not be used with this product or stored inside product containers.

### Occupational Exposure Values:

<b>OSHA PEL-TWA:</b>	None Established
<b>ACGIH TLV-TWA:</b>	<b>Potassium Persulfate/Ammonium Persulfate (as S<sub>2</sub>O<sub>8</sub>): 0.1 mg/m<sup>3</sup></b>
<b>OSHA PEL/ACGIH TLV STEL :</b>	None Established
<b>OSHA PEL/ACGIH TLV CEILING:</b>	None Established

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

**APPEARANCE:** Thick, grainy paste. May be white or colored.

**ODOR:** Could have a possible ammonia odor or enhanced fragrance.

**ODOR THRESHOLD:** Not established.

**pH:** Not applicable

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

**MELTING POINT: Decomposes**

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

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

**EVAPORATION RATE:** N/A

**FLAMMABILITY:** SOLID MATERIAL. NON-FLAMMABLE. SELF-HEATING.

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

# L'ORÉAL USA

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

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

**RELATIVE DENSITY/SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** >1

**SOLUBILITY IN WATER:** Approx 80% water soluble

**PARTITION COEFFICIENT: n-octanol/water:** Not available

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

**DECOMPOSITION TEMPERATURE:** Not available

**VISCOSITY:** Thick solid. Measurement not available.

---

## SECTION 10: STABILITY AND REACTIVITY

---

**REACTIVITY:** This material may react to heat, metal and moisture.

**STABILITY:** Material is stable at room temperature and under dry conditions. Heat and/or moisture may cause instability.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Reaction with heat, metal and moisture are possible for both the finished product and manufactured, unpackaged product. Hazardous polymerization is not expected to occur.

**CONDITIONS TO AVOID:** Heat, moisture, contamination with organic materials and metal utensils.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Organic compounds (including flammable and combustible materials) and reducing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxygen, chlorine, oxides of sulfur, sodium oxide and ammonia

---

## SECTION 11: TOXICOLOGICAL INFORMATION

---

### POTENTIAL HEALTH EFFECTS

#### **ACUTE HEALTH EFFECTS:**

**SKIN CORROSION/IRRITATION:** Irritation, possible allergic dermatitis

**SERIOUS EYE DAMAGE OR IRRITATION:** Irritation may be associated with this product, if direct contact occurs

**RESPIRATORY OR SKIN SENSITIZATION:** Respiratory sensitization has been associated with loosely powdered forms of hair bleach – this product is a thick paste.

**INGESTION:** Harmful if swallowed, slightly toxic

**INHALATION:** Irritation and possible sensitization (more common with powdered formulations)

#### **CARCINOGENICITY:**

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

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

**ROUTES OF EXPOSURE:** Inhalation, eyes, skin

**CHRONIC HEALTH HAZARDS:** Possible allergic dermatitis. Possible respiratory sensitization which is more common with the use of powdered hair bleaches.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Existing dermatological conditions (such as eczema) and respiratory conditions (such as bronchial asthma and/or bronchitis) may be exacerbated.

# L'ORÉAL USA

INGREDIENT NAME	TEST	SPECIES	DOSE
Ammonium Persulfate	LD <sub>50</sub> (Dermal)	Rat	>2,000 mg/kg
Ammonium Persulfate	LD <sub>50</sub> (Oral)	Rat	495 mg/kg
Ammonium Persulfate	LC <sub>50</sub> (Inhalation)	Rat	2.95 mg/l; 4 hr
Potassium Persulfate	LD <sub>50</sub> (Oral)	Rat	1,130 mg/kg
Potassium Persulfate	LD <sub>50</sub> (Dermal)	Rabbit	>10 g/kg
Potassium Persulfate	LC <sub>50</sub> (Inhalation)	Rat	>42.9 mg/l AEROSOL

---

## 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.

The product itself has not been tested as a whole, but the following results have been associated with some of its constituents:

### ACUTE AND PROLONGED TOXICITY TO FISH

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Ammonium Persulfate	LC <sub>50</sub> (OECD TG 203)	323 mg/l	Poecillia reticulata	96 h
Potassium Persulfate	LC <sub>50</sub> (FMC Study I92-1250)	771 mg/l	Bluegill Sunfish	96 h

### ACUTE TOXICITY TO AQUATIC INVERTEBRATES

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Ammonium Persulfate	EC <sub>50</sub> (OECD Guideline 202)	357 mg/l	Daphnia Magna	48 h
Potassium Persulfate	EC <sub>50</sub> (FMC Study I92-1251)	133 mg/l	Daphnia Magna	48 h

CHEMICAL FATE: Biodegradability does not apply to inorganic substances.

---

## SECTION 13: DISPOSAL CONSIDERATIONS

---

**WASTE DISPOSAL METHOD:** Hair bleaching products are ignitable RCRA hazardous wastes when intended for disposal. Physical and/or chemical deactivation/degradation is the required method of treatment and disposal. Commonly, incineration is utilized as a management method.

**RCRA HAZARD CLASS:** D001

Follow all local governmental requirements intended for disposal.

---

## SECTION 14: TRANSPORT INFORMATION

---

### North American Ground Transportation

- **In Consumer Packaging:**  
**ID NUMBER:** UN 3088  
**PROPER SHIPPING NAME:** Self-heating, solid, organic, n.o.s.  
**TECHNICAL NAME:** (Potassium Persulfate, Ammonium Persulfate)  
**HAZARD CLASS:** 4.2  
**PACKING GROUP:** II  
**LABEL STATEMENTS:** Spontaneously Combustible (see label on next page)
- **Other Than Consumer Packaging:**  
**ID NUMBER:** UN 3088  
**PROPER SHIPPING NAME:** Self-heating, solid, organic, n.o.s.  
**TECHNICAL NAME:** (Potassium Persulfate, Ammonium Persulfate)  
**HAZARD CLASS:** 4.2  
**PACKING GROUP:** II  
**LABEL STATEMENTS:** Spontaneously Combustible (see label on next page)

### Transport Via Water

- **In Consumer Packaging:**  
**ID NUMBER:** UN 3088  
**PROPER SHIPPING NAME:** Self-heating, solid, organic, n.o.s.  
**TECHNICAL NAME:** (Potassium Persulfate, Ammonium Persulfate)  
**HAZARD CLASS:** 4.2  
**PACKING GROUP:** II  
**LABEL STATEMENTS:** Spontaneously Combustible (see label on next page)
- **Other Than Consumer Packaging:**  
**ID NUMBER:** UN 3088  
**PROPER SHIPPING NAME:** Self-heating solid, organic, n.o.s.  
**TECHNICAL NAME:** (Potassium Persulfate, Ammonium Persulfate)  
**HAZARD CLASS:** 4.2  
**PACKING GROUP:** II  
**LABEL STATEMENTS:** Spontaneously Combustible (see label on next page)

# L'ORÉAL USA

## Transport Via Air

- **In Consumer Packaging:**  
**ID NUMBER:** UN 3088  
**PROPER SHIPPING NAME:** Self-heating, solid, organic, n.o.s.  
**TECHNICAL NAME:** (Potassium Persulfate, Ammonium Persulfate)  
**HAZARD CLASS:** 4.2  
**PACKING GROUP:** II  
**LABEL STATEMENTS:** Spontaneously Combustible
- **OTHER THAN CONSUMER PACKAGING (>450L):**  
**ID NUMBER:** UN 3088  
**PROPER SHIPPING NAME:** Self-heating solid, organic, n.o.s.  
**TECHNICAL NAME:** (Potassium Persulfate, Ammonium Persulfate)  
**HAZARD CLASS:** 4.2  
**PACKING GROUP:** II  
**LABEL STATEMENTS:** Spontaneously Combustible

Please be aware of carrier transport variations before shipping hazardous materials

## LABELS FOR THIS PRODUCT

Label for fully regulated materials, Division 4.2:



---

## **SECTION 15: REGULATORY INFORMATION**

---

**National Fire Protection Association Codes:** Health: 2 Fire: 0 Reactivity: 1 Other:  
**Workplace Hazardous Materials Identification System:** Class B Division 6 Flammable Reactive Material (solid)  
**Occupational Safety and Health Administration:** Reactive, Irritant, Possible Sensitizer  
**US DOT/ICAO/IMDG:** See section 14 above

---

## **SECTION 16: OTHER INFORMATION**

---

**PREPARATION INFORMATION:** This document represents an initial publication of this information.  
Preparer name: Chandra L. Jennings



# 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
-------------------------------------	------------------------------------	------------	------------

### 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.

<b>Section V - Reactivity Data</b>			<b>Non-Haz</b>
------------------------------------	--	--	----------------

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	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.

---

Other Protective Clothing or Equipment

Safety glasses and protective clothing for bulk quantities.

---

Work/Hygienic Practices

OSHA hazard classification: Non-Hazardous

DOT classification: Bulk - Not regulated

Finished Product - Not regulated.

---