

**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

**Rdk Headplay Working Spray****IDENTITY**

Alcohol-Based Hair Styling Products

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

**Section I**

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

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

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

**Section III - Physical/Chemical Characteristics**

Boiling Point	120-170°F	Specific Gravity (H2O = 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%
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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**

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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**

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## 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.