



34-050-035

Redken Curl Force

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 (H₂O = 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

Products associated with this data sheet have been previously determined to be in accordance with the International Maritime Dangerous Goods Code Special Provision 144. 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 IMDG Code.

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

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.

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