



SAFETY DATA SHEET
ISSUANCE DATE: August 4, 2016

SDS # 00-38-007-0

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

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

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

For further information:
1-732-499-2741

Poison Control Number: 412-390-3326

Product Name: Redken For Men Work Hard Molding Paste

Recommendations on use: Personal care product used on hair for cosmetic enhancement.

Restrictions on use: For external use only. Use only as directed.

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: NONE

Symbol	Classification	Hazard Statement	Prevention Statements
No Symbol Required	NON-HAZARDOUS	NONE	NONE

This material is not considered hazardous by the U.S. Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200)

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

Hazards Not Otherwise Classified: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Only hazardous constituents associated with the product are listed below

No hazardous constituents requiring notification

SECTION 4: FIRST AID MEASURES

Response Statements:

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

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

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

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

SYMPTOMS/EFFECTS: None expected.

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

SECTION 5: FIRE-FIGHTING MEASURES

Notes for Non-Emergency Personnel:

EXTINGUISHING MEDIA: In case of fire: Use carbon dioxide, dry chemical, foam and/or water spray to extinguish. 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: Follow National Fire Protection Association Guidelines or local guidelines appropriate for emergency response.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None required.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Notes for non-emergency personnel:

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

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

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

Notes for those trained to participate in an emergency:

ACCIDENTAL RELEASE MEASURES: Dike and contain the free liquid and absorb on vermiculite or spill pillows/pads. Solidified materials should be placed in sturdy containers for disposal. Place spill residual in appropriate containers for disposal. Wash area completely with water. Avoid contact with wet surfaces or walkways that may become slick when residue is present. Prohibit discharge to drains, soil, surface and ground waters.

Recommendations for personal protective equipment selection are noted above. Dispose in accordance with section 13 of this document.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Do not eat, drink or smoke while working with chemical 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.

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

CONDITIONS FOR SAFE STORAGE:

Storage precautions for unpackaged product (manufacturing environment): Store in a well-ventilated place and keep cool. Keep containers closed when not in use. Store where releases can easily be contained.

Storage precautions for packaged product: See consumer packaging.

Keep away from open drains and access to the environment.

Incompatible materials: None known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

OCCUPATIONAL EXPOSURE VALUES:

Component Name (CAS-No.)	Reference	TWA		STEL/CEILING	
		ppm	mg/m ³	ppm	mg/m ³
No OEVs have been established for noted constituents.	ACGIH TLV	--	--	--	--
	OSHA PEL	--	--	--	--
	NIOSH REL	--	--	--	--

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

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

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

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

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

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

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

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Opaque Paste – Off-White
ODOR:	Characteristic
ODOR THRESHOLD:	Not Available
pH:	3.5 – 4.5
MELTING/FREEZING POINT:	F: Not Available C: Not Available
BOILING POINT:	F: Not Available C: Not Available
FLASH POINT:	F: > 212 C: > 100 METHOD USED: Closed cup
EVAPORATION RATE:	Not Available (Butyl acetate = 1)
FLAMMABILITY:	Not Applicable to Liquids
FLAMMABLE LIMITS IN AIR:	Not Applicable
VAPOR PRESSURE (mmHg):	@ F: Not Available @ C: Not Available
VAPOR DENSITY (AIR = 1):	@ F: Not Available @ C: Not Available
RELATIVE DENSITY (H₂O = 1):	0.95 – 1.05
SOLUBILITY IN WATER:	Not Available
PARTITION COEFFICIENT:	Not Available
AUTOIGNITION TEMPERATURE:	Not Available
DECOMPOSITION TEMPERATURE:	Not Available
VISCOSITY:	Not Available

SECTION 10: STABILITY AND REACTIVITY

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

STABILITY: Product is stable.

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

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS:

SKIN CORROSION/IRRITATION: None expected

SERIOUS EYE DAMAGE/IRRITATION: None expected

RESPIRATORY/SKIN SENSITIZATION: None expected

INGESTION: Harmful if swallowed

INHALATION: None expected

ROUTES OF EXPOSURE: Inhalation, eyes, skin, ingestion

SYMPTOMS: None expected

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

ACUTE TOXICOLOGY DATA FOR COMPONENTS

No Data

Skin Corrosion/Irritation:

No Data

Serious Eye Damage/Irritation:

No Data

Respiratory Irritation:

No Data

Skin Sensitization:

No Data

CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:

No Data

CARCINOGENICITY:

Component Name (CAS-No.)	OSHA	ACGIH	NTP	IARC
None established	--	--	--	--

MUTAGENICITY:

No Data

REPRODUCTIVE TOXICITY:

No Data

DEVELOPMENTAL TOXICITY/TERATOGENICITY:

No Data

SECTION 12: ECOLOGICAL INFORMATION

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

ACUTE AND PROLONGED TOXICITY TO FISH

No Data

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

No Data

TOXICITY TO AQUATIC PLANTS

No Data

TOXICITY TO MICROORGANISMS

No Data

PERSISTENCY AND DEGRADABILITY:

No Data

BIOACCUMULATIVE POTENTIAL:

No Data

SECTION 13: DISPOSAL CONSIDERATIONS

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

WASTE DISPOSAL CONTAINERS: Appropriate containers should be utilized which may include fiberboard boxes for products and plastic/lined drums for bulk liquids.

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

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 (Domestic/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: 0 Fire: 1 Reactivity: 0 Other: None

Workplace Hazardous Materials Identification System: None

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

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: This is the first issuance of this document.

Author: Ronald Weslosky (Corporate Regulatory Services)



SAFETY DATA SHEET
ISSUANCE DATE: April 6, 2017

SDS # 00-38-022-0

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

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

L'Oreal Canada
4895 rue Hickmore
Ville St-Laurent, H4T 1K5
Canada

For further information:
1-732-499-2741

Poison Control Number: 412-390-3326

Product Name: Redken for Men Stand Tough Extreme Gel

Recommendations on use: Personal care product used on hair for cosmetic enhancement.

Restrictions on use: For external use only. Use only as directed.

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: NONE

Symbol	Classification	Hazard Statement	Prevention Statements
No Symbol Required	NON-HAZARDOUS	NONE	NONE

This material is not considered hazardous by the U.S. Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200)

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

Hazards Not Otherwise Classified: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Only hazardous constituents associated with the product are listed below

No hazardous constituents requiring notification

SECTION 4: FIRST AID MEASURES

Response Statements:

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

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

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

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

SYMPTOMS/EFFECTS: None expected.

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

SECTION 5: FIRE-FIGHTING MEASURES

Notes for Non-Emergency Personnel:

EXTINGUISHING MEDIA: In case of fire: Use carbon dioxide, dry chemical, foam and/or water spray to extinguish. 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: Follow National Fire Protection Association Guidelines or local guidelines appropriate for emergency response.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None required.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Notes for non-emergency personnel:

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

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

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

Notes for those trained to participate in an emergency:

ACCIDENTAL RELEASE MEASURES: Dike and contain the free liquid and absorb on vermiculite or spill pillows/pads. Solidified materials should be placed in sturdy containers for disposal. Place spill residual in appropriate containers for disposal. Wash area completely with water. Avoid contact with wet surfaces or walkways that may become slick when residue is present. Prohibit discharge to drains, soil, surface and ground waters.

Recommendations for personal protective equipment selection are noted above. Dispose in accordance with section 13 of this document.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Do not eat, drink or smoke while working with chemical 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.

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

CONDITIONS FOR SAFE STORAGE:

Storage precautions for unpackaged product (manufacturing environment): Store in a well-ventilated place and keep cool. Keep containers closed when not in use. Store where releases can easily be contained.

Storage precautions for packaged product: See consumer packaging.

Keep away from open drains and access to the environment.

Incompatible materials: None known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

OCCUPATIONAL EXPOSURE VALUES:

Component Name (CAS-No.)	Reference	TWA		STEL/CEILING	
		ppm	mg/m ³	ppm	mg/m ³
No OEVs have been established for noted constituents.	ACGIH TLV	--	--	--	--
	OSHA PEL	--	--	--	--
	NIOSH REL	--	--	--	--

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

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

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

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

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

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

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

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Viscous Gel – Slightly Yellow		
ODOR:	Characteristic		
ODOR THRESHOLD:	Not Available		
pH:	5.8 – 6.6		
MELTING/FREEZING POINT:	F: Not Available C: Not Available		
BOILING POINT:	F: > 212	C: > 100	
FLASH POINT:	F: > 212	C: > 100	METHOD USED: Closed cup
EVAPORATION RATE:	Not Available (Butyl acetate = 1)		
FLAMMABILITY:	Not Applicable to Liquids		
FLAMMABLE LIMITS IN AIR:	Not Applicable		
VAPOR PRESSURE (mmHg):	@ F: Not Available @ C: Not Available		
VAPOR DENSITY (AIR = 1):	@ F: Not Available @ C: Not Available		
RELATIVE DENSITY (H2O = 1):	≥ 0.97		
SOLUBILITY IN WATER:	Not Available		
PARTITION COEFFICIENT:	Not Available		
AUTOIGNITION TEMPERATURE:	Not Available		
DECOMPOSITION TEMPERATURE:	Not Available		
VISCOSITY:	Not Available		

SECTION 10: STABILITY AND REACTIVITY

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

STABILITY: Product is stable.

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

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS:

SKIN CORROSION/IRRITATION: None expected

SERIOUS EYE DAMAGE/IRRITATION: None expected

RESPIRATORY/SKIN SENSITIZATION: None expected

INGESTION: Harmful if swallowed

INHALATION: None expected

ROUTES OF EXPOSURE: Inhalation, eyes, skin, ingestion

SYMPTOMS: None expected

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

ACUTE TOXICOLOGY DATA FOR COMPONENTS

No Data

Skin Corrosion/Irritation:

No Data

Serious Eye Damage/Irritation:

No Data

Respiratory Irritation:

No Data

Skin Sensitization:

No Data

CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:

No Data

CARCINOGENICITY:

Component Name (CAS-No.)	OSHA	ACGIH	NTP	IARC
None established	--	--	--	--

MUTAGENICITY:

No Data

REPRODUCTIVE TOXICITY:

No Data

DEVELOPMENTAL TOXICITY/TERATOGENICITY:

No Data

SECTION 12: ECOLOGICAL INFORMATION

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

ACUTE AND PROLONGED TOXICITY TO FISH

No Data

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

No Data

TOXICITY TO AQUATIC PLANTS

No Data

TOXICITY TO MICROORGANISMS

No Data

PERSISTENCY AND DEGRADABILITY:

No Data

BIOACCUMULATIVE POTENTIAL:

No Data

SECTION 13: DISPOSAL CONSIDERATIONS

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

WASTE DISPOSAL CONTAINERS: Appropriate containers should be utilized which may include fiberboard boxes for products and plastic/lined drums for bulk liquids.

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

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 (Domestic/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: 0 Fire: 1 Reactivity: 0 Other: None

Workplace Hazardous Materials Identification System: None

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

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: This is the first issuance of this document.

Author: Ronald Weslosky (Corporate Regulatory Services)



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

INGREDIENT:	CAS NO.	% WT
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:

OSHA PEL-TWA:	1000 ppm Pentane (all isomers)
ACGIH TLV-TWA:	1000 ppm Butane/Isobutane/Propane (as Aliphatic hydrocarbon gases)
	600 ppm Pentane (all isomers)
	None listed Difluorethane/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 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 (H₂O = 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

SAFETY DATA SHEET

ISSUANCE DATE: July 24, 2014

SDS # 99-009

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

Emergency Telephone Number
1-800-535-5053 (International: 352-323-3500)

For further information: 1-732-499-2741

Poison Control Number: 1-412-390-3326


Product Name: Water-Based Shampoos and Body Cleansers

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

Restrictions on use: For external use only. Use only as directed. Products which are labeled "For Adult Use Only" should not be used by children. Bath products intended for children should not be used for prolonged periods due to possible skin and/or urinary tract irritation with immersion.

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: WARNING

	Eye Irritation Category 2A	Causes serious eye irritation	<ul style="list-style-type: none">Wash hands and face thoroughly after handling.Wear eye protection/face protection; eye protection appropriate for the manufacturing operation being performed should be used (goggles or face shield).
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This material is considered hazardous by the US Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200)

General Precautionary Statements: Keep out of reach of children. Read label before use. Discontinue use if rash, redness, or itching occurs.

Additional Precautionary Statements for Immersion Products: Excessive use or prolonged exposure may cause irritation to urinary tract. Avoid contact with eyes.

Hazards Not Otherwise Classified: Prolonged contact may cause irritation of skin and mucous membranes. May cause gastrointestinal disturbance and diarrhea if ingested.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Only hazardous constituents associated with the product are listed below

INGREDIENT:

Sodium Lauryl Sulfate
Sodium Laureth Sulfate

CAS NO.

85586-07-8
3088-31-1

% WT

≤ 40%
≤ 30%

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Coco-Betaine	68424-94-2	≤ 16%
Cocamidopropyl Betaine	61789-40-0	≤ 16%
Disodium Cocoamphodipropionate	68604-71-7	≤ 16%
Ammonium Lauryl Sulfate	2235-54-3	≤ 12%
Disodium Laureth Sulfosuccinate	39354-45-5	≤ 13%
Sodium Lauryl Sulfoacetate	1847-58-1	≤ 13%
Sodium Lauroyl Sarcosinate	137-16-6	≤ 9%
Disodium Cocoamphodiacetate	68650-39-5	≤ 8%
Sodium Cocoyl Isethionate	61789-32-0	≤ 8%
Cocamide MEA	68140-00-1	≤ 5%

SECTION 4: FIRST AID MEASURES

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 all contaminated clothing and laundry before reuse. If irritation of the urinary tract should occur following use of a bath product, consult a physician.

IF INHALED: Remove individual to fresh air and keep in a rest position comfortable for breathing. Call a poison control center if you feel unwell.

IF SWALLOWED: Immediately call a poison control center or consult a physician. Do not induce vomiting. Never give anything by mouth to an unconscious individual.

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

Notes for Non-Emergency Personnel:

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.

Notes for those trained to participate in an emergency:

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not known

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal degradation may produce oxides of carbon and sulfur.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Notes for non-emergency personnel:

Consult trained response personnel for clean-up of large spills or locations where providing control of the release is hazardous. Isolate the area and deny entry to unnecessary and unprotected personnel. Sections 2, 5, 7 and 8 of this document should be consulted upon use of material, to become knowledgeable of the material's hazards and how to control associated risks.



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

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

Notes for those trained in an emergency:

ACCIDENTAL RELEASE MEASURES: Dike and contain any free liquid then absorb on vermiculite or spill pillows/pads. Solidified materials should be placed in sturdy containers for disposal. Wash area completely with water. Take care to avoid contact with wet surfaces or walkways that may become slick when product is present. 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:

Do not eat, drink, or smoke while working with hazardous materials. Avoid contact with eyes, clothing, and prolonged contact with skin (other than areas of application). Employees should be advised to wear appropriate protective equipment in the manufacturing environment. Refer to Section 8 for personal protective equipment selection. All manufacturing should be performed indoors, in an enclosed environment.

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

Incompatible Materials: None known.

Conditions for safe storage of unpackaged product (manufacturing environment): Store in the original tightly capped containers away from sunlight and other heat sources. Keep in a cool and well-ventilated area. Keep container closed when not in use. Store on spill pallets or in other locations where spill containment will be easily accessible.

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

Storage precautions for packaged product – see consumer packaging. No special precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

OCCUPATIONAL EXPOSURE VALUES:

Component Name (CAS-No.)	Reference	TWA		STEL/CEILING	
		ppm	mg/m ³	ppm	mg/m ³
No OEVs have been established for noted constituents.	OSHA PEL	--	--	--	--
	ACGIH TLV	--	--	--	--
	NIOSH REL	--	--	--	--

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 considered to control nuisance odors associated with product fragrance.

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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: consistent with nuisance odor removal. Mechanical (general): consistent with nuisance odor removal.

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 for PPE advice, in the event of an emergency.

Eye/Face Protection (Non-Emergency): None required for product use. For handling of large quantities of material, safety glasses with side shields/goggles are recommended. Face shields may be required where possibility of a large splash to the face could occur.

Skin Protection (Non-Emergency): 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. 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 to control nuisance odors. Ensure that the respirator meets current local occupational health and safety standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colored, transparent or opaque, semi-viscous liquid		
ODOR:	Pleasant odor		
ODOR THRESHOLD:	Not Available		
pH:	3.5 – 9.0		
MELTING/FREEZING POINT:	F: ~32	C: ~0	
BOILING POINT:	F: ~212	C: ~100	
FLASH POINT:	F: >200	C: >93.4	METHOD USED: Closed cup
EVAPORATION RATE:	<1 (Butyl acetate = 1)		
FLAMMABILITY:	Not Applicable to Liquids		
FLAMMABLE LIMITS IN AIR:	Not Available		
VAPOR PRESSURE (mmHg):	@ F: N/A	C: N/A	
VAPOR DENSITY (AIR = 1):	@ F: N/A	C: N/A	
RELATIVE DENSITY (H₂O = 1):	~1		
SOLUBILITY IN WATER:	Freely soluble		
PARTITION COEFFICIENT:	Not Available		
AUTOIGNITION TEMPERATURE:	Not Available		
DECOMPOSITION TEMPERATURE:	Not Available		
VISCOSITY:	Viscous flowing liquid		

SECTION 10: STABILITY AND REACTIVITY

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

STABILITY: Product is stable.

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

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and sulfur, hydrocarbons, and/or derivatives.

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 serious eye irritation

RESPIRATORY/SKIN SENSITIZATION: None expected

INGESTION: May cause gastrointestinal disturbance or diarrhea

INHALATION: None expected

ROUTES OF EXPOSURE: Eyes and skin

SYMPTOMS: Symptoms may include watering, stinging or itching eyes with direct contact. Prolonged contact may cause irritation of skin and mucous membranes. May cause gastrointestinal disturbance and diarrhea if ingested.

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

ACUTE TOXICOLOGY DATA FOR COMPONENTS

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

Material	Route	Species	Test Results
Sodium Lauryl Sulfate (28.2%)	Oral LD ₅₀	Rat	6,000 mg/kg
Sodium Lauryl Sulfate	Dermal LD ₅₀	Rabbit	ca.600 mg/kg
Sodium Lauryl Sulfate	LC ₅₀ (4 hr)	Rat	8.67 mg/L
Sodium Laureth Sulfate	Oral LD ₅₀	Rat	4,100 mg/kg bw
Sodium Laureth Sulfate	Dermal LD ₅₀	Rabbit	> 2,000 mg/kg bw
Coco-Betaine	Oral LD ₅₀	Rat	6,900 mg/kg
Coco-Betaine	Dermal LD ₅₀	Rat	> 2.0 g/kg
Cocamidopropyl Betaine (30.6% Active sol.)	Oral LD ₅₀	Rat	4900 mg/kg bw
Cocamidopropyl Betaine (31% Active sol.)	Dermal LD ₅₀	Rat	> 2000 mg/kg
Disodium Cocoamphodipropionate	Oral LD ₅₀	Rat	> 5.0 ml/kg
Disodium Cocoamphodipropionate	Dermal LD ₅₀	Rat (OECD 402)	> 2,000 mg/kg bw
Ammonium Lauryl Sulfate	Oral LD ₅₀	Rat	> 135 mg/kg bw
Disodium Cocoamphodiacetate	Oral LD ₅₀	Rats/Mice	> 5.0 to 16.60 g/kg
Disodium Cocoamphodiacetate	Dermal LD ₅₀	Rats/Mice	> 10.0 ml/kg
Sodium Lauroyl Sarcosinate	Oral LD ₅₀	Rat	4.2 - 5 mg/kg
Sodium Lauryl Sulfoacetate	Oral LD ₅₀	Rat	5,750 mg/kg

Material	Route	Species	Test Results
Disodium Laureth Sulfosuccinate (40%)	Oral LD ₅₀	Rat	> 2,000 mg/kg
Disodium Laureth Sulfosuccinate (30-40%)	Dermal LD ₅₀	Rabbit	> 2,000 mg/kg
Sodium Cocoyl Isethionate	Oral LD ₅₀	Rat (OECD 401)	> 2,000 mg/kg bw
Cocamide MEA	Oral LD ₅₀	Mice	>10 g/kg
Cocamide MEA	Dermal LD ₅₀	Rabbits	>2 g/kg

Skin Corrosion/Irritation:

<i>Sodium Lauryl Sulfate:</i>	Slightly – Moderately Irritating: 0.5% - 10%; Skin Corrosion/Severe Irritation: 10% - 30% (Rat)
<i>Sodium Laureth Sulfate:</i>	Not Irritating: 5% - 5.6%; Minimally Irritating: 6 - 10%; Severely Irritating: > 25% (Rat)
<i>Coco-Betaine:</i>	Not Irritating: 7.5%; Slightly Irritating: 15%; Mildly Irritating: 30% (Rat); Not Irritating: 6.0% (Human)
<i>Cocamidopropyl Betaine:</i>	Slightly irritating: 10% (Human)
<i>Disodium Cocoamphodipropionate:</i>	Not Irritating (Rabbit)
<i>Ammonium Lauryl Sulfate:</i>	Slightly Irritating: 25%
<i>Disodium Laureth Sulfosuccinate:</i>	Not irritating: 3%
<i>Sodium Lauryl Sulfoacetate:</i>	Moderate Irritant – 100%
<i>Sodium Lauroyl Sarcosinate:</i>	Not Irritating: 30% (Rat)
<i>Disodium Cocoamphodiacetate:</i>	Irritating: 4.0% (Rat)
<i>Sodium Cocoyl Isethionate:</i>	Slightly Irritating (Rabbit) OECD 404
<i>Cocamide MEA:</i>	Slightly Irritating: 50% (Rabbit); Not Irritating: 50% (Human)

Serious Eye Damage/Irritation:

<i>Sodium Lauryl Sulfate:</i>	Mildly Irritating: 5.1%; Moderately Irritating: 10%; Severely Irritating: 21% (Rat)
<i>Sodium Laureth Sulfate:</i>	Mildly Irritating: 1.3 – 7.5%; Moderately Irritating: 10 – 17.5%; Severely Irritating: >20% (Rat)
<i>Coco-Betaine:</i>	Not Irritating: 4.5% (Rat); Moderately Irritating: 10%, (Rabbit);
<i>Cocamidopropyl Betaine:</i>	Slightly Irritating: 10% (Human)
<i>Disodium Cocoamphodipropionate:</i>	Not Irritating: 7.5%; Risk of Serious Eye Damage: 40%
<i>Ammonium Lauryl Sulfate:</i>	Irritating: 20% (Rabbit)
<i>Disodium Laureth Sulfosuccinate:</i>	Irritating: 10%; Eye Damage: 25% (Rabbit)
<i>Sodium Lauryl Sulfoacetate:</i>	Possibly Irritating
<i>Sodium Lauroyl Sarcosinate:</i>	Not Irritating: 5%; Slightly Irritating: 10% (Rabbit)
<i>Disodium Cocoamphodiacetate:</i>	Moderately - Severely Irritating: 10-12%
<i>Sodium Cocoyl Isethionate:</i>	Irritating (Rabbit) OECD 405
<i>Cocamide MEA:</i>	Irritating after prolonged contact

Respiratory Irritation:

<i>Sodium Lauryl Sulfate:</i>	15% - 25% - Inhibition of Respiration (Mice and Rabbits)
<i>Sodium Laureth Sulfate:</i>	Causes Respiratory Irritation.
<i>Coco-Betaine:</i>	Possibly Irritating
<i>Cocamidopropyl Betaine:</i>	Not Irritating
<i>Sodium Lauroyl Sarcosinate:</i>	Possibly Irritating
<i>Cocamide MEA:</i>	Possibly Irritating

Skin Sensitization:

<i>Sodium Lauryl Sulfate:</i>	Possibly sensitizing with repeated contact.
<i>Sodium Laureth Sulfate:</i>	Not Sensitizing: 0.1% (Topical Application); Slightly Sensitizing: 0.1% (Intradermal) (Guinea Pig)
<i>Coco-Betaine:</i>	Not Sensitizing: 0.75% (Guinea Pig); Slightly Sensitizing: 0.15% (Intradermal) (Guinea Pig)
<i>Cocamidopropyl Betaine:</i>	Possibly sensitizing with repeated contact.
<i>Disodium Cocoamphodipropionate:</i>	Not Sensitizing (Human)
<i>Ammonium Lauryl Sulfate:</i>	Not sensitizing: 25% (Repeat Insult Patch Test)
<i>Sodium Lauryl Sulfoacetate:</i>	Not Sensitizing: 2% (Guinea pig)
<i>Sodium Lauroyl Sarcosinate:</i>	Not Sensitizing: 5%
<i>Sodium Cocoyl Isethionate:</i>	Not Sensitizing: (Guinea pig) OECD 406
<i>Disodium Cocoamphodiacetate:</i>	Not Sensitizing: 28.1%

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CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:

NOAEL (<i>Sodium Lauryl Sulfate</i> , oral):	100 mg/kg/day; Rat
NOAEL (<i>Sodium Laureth Sulfate</i> , oral):	>225 mg/kg bw/day; Rat
NOAEL (<i>Cocamidopropyl Betaine</i>):	500 mg/kg; Rat
LOAEL (<i>Cocamidopropyl Betaine</i>):	1,000 mg/kg; Rat
NOAEL (<i>Disodium Cocoamphodipropionate</i> , oral):	1,000 mg/kg bw/day; Rat (OECD 422)
NOAEL (<i>Disodium Laureth Sulfosuccinate</i>):	300 mg/kg; Rat
NOAEL (<i>Sodium Lauryl Sulfoacetate</i> , oral):	75 mg/kg/day; Rat
NOAEL (<i>Sodium Lauroyl Sarcosinate</i>):	1,000 mg/kg/day; Rat
NOAEL (<i>Disodium Cocoamphodiacetate</i> , oral):	16.60g/kg; Rat
NOAEL (<i>Sodium Cocoyl Isethionate</i> , oral):	≥ 1,000 mg/kg bw/day; Rat (OECD 407)
NOAEL (<i>Sodium Cocoyl Isethionate</i> , dermal):	≥ 2,070 mg/kg bw/day; Rat (OECD 410)
NOAEL (<i>Cocamide MEA</i> , oral):	> 750 mg/kg bw/day in olive oil; Rat

MUTAGENICITY:

<i>Sodium Lauryl Sulfate</i> :	A variety of <i>in vitro</i> and <i>in vivo</i> tests have produced negative results.
<i>Sodium Laureth Sulfate</i> :	A variety of <i>in vitro</i> and <i>in vivo</i> tests have produced negative results.
<i>Coco-Betaine</i> :	A variety of <i>in vitro</i> tests have produced negative results.
<i>Cocamidopropyl Betaine</i> :	A variety of <i>in vitro</i> tests have produced negative results.
<i>Disodium Cocoamphodipropionate</i> :	A variety of <i>in vitro</i> tests have produced negative results.
<i>Disodium Laureth Sulfosuccinate</i> :	A variety of <i>in vitro</i> and <i>in vivo</i> tests have produced negative results.
<i>Sodium Lauryl Sulfoacetate</i> :	A variety of <i>in vitro</i> tests have produced negative results.
<i>Sodium Lauroyl Sarcosinate</i> :	A variety of <i>in vitro</i> and <i>in vivo</i> tests have produced negative results.
<i>Disodium Cocoamphodiacetate</i> :	A variety of <i>in vitro</i> tests have produced negative results.
<i>Sodium Cocoyl Isethionate</i> :	A variety of <i>in vitro</i> tests have produced negative results.
<i>Cocamide MEA</i> :	A variety of <i>in vitro</i> tests have produced negative results.

REPRODUCTIVE TOXICITY

<i>Sodium Lauryl Sulfate</i> :	No adverse effect was seen on fertility.
<i>Sodium Laureth Sulfate</i> :	NOAEL > 3%; 300 mg/kg/day. No adverse effects after 0.1% solutions.
<i>Coco-Betaine</i> :	No adverse effect was seen on fertility.
<i>Cocamidopropyl Betaine</i> :	No adverse effect was seen on fertility.
<i>Disodium Cocoamphodipropionate</i> :	NOAEL: 1,000 mg/kg (Rat) (OECD 422)
<i>Disodium Laureth Sulfosuccinate</i> :	No adverse effect was seen on fertility.
<i>Sodium Lauryl Sulfoacetate</i> :	NOAEL: 1000 mg/kg bw (OECD 421)
<i>Sodium Lauroyl Sarcosinate</i> :	No adverse effect was seen on fertility.
<i>Cocamide MEA</i> :	No adverse effect was seen on fertility.

DEVELOPMENTAL TOXICITY/TERATOGENICITY

<i>Sodium Lauryl Sulfate</i> :	NOAEL: 300 mg/kg/day; LOAEL: 600 mg/kg/day (Mice/Rat)
<i>Sodium Laureth Sulfate</i> :	NOAEL: 1,000 mg/kg bw/day (OECD 414 – Rat)
<i>Coco-Betaine</i> :	No indication for genotoxic or teratogenic effects
<i>Disodium Cocoamphodipropionate</i> :	No teratogenic effects (Rat) (OECD 422)
<i>Disodium Laureth Sulfosuccinate</i> :	NOAEL: > 50 mg/kg bw/day
<i>Sodium Lauryl Sulfoacetate</i> :	NOAEL: 1000 mg/kg bw (OECD 421)
<i>Sodium Lauroyl Sarcosinate</i> :	NOAEL: > 1,000 mg/kg/day (Rat)
<i>Disodium Laureth Sulfosuccinate</i> :	NOAEL: > 50 mg/kg bw/day
<i>Cocamide MEA</i> :	No indication for genotoxic or teratogenic effects

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.

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

ACUTE AND PROLONGED TOXICITY TO FISH

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Sodium Laureth Sulfate	LC ₅₀	7.1 mg/L	Danio Rerio	96 h
Sodium Laureth Sulfate	LC ₅₀	7.1 mg/L	Danio Rerio	96 h
Coco-Betaine	LC ₅₀	2 mg/L	Golden Orfe	96 h
Cocamidopropyl Betaine	LC ₅₀	1.0-10.0 mg/L	Golden Orfe	96 h
Ammonium Lauryl Sulfate	LC ₅₀	1.5 mg/L	Fathead Minnow	48 h
Sodium Lauryl Sulfoacetate	LC ₅₀	4.2 mg/L (OECD 203)	Not Reported	96 h
Sodium Lauroyl Sarcosinate	LC ₅₀	107 mg/L	Danio Rerio	96 h
Disodium Cocoamphodiacetate	LC ₅₀	> 1 – 10 mg/L	Not Reported	96 h
Sodium Cocoyl Isethionate	LC ₅₀	31.6 mg/L (OECD 203)	Danio Rerio	96 h
Cocamide MEA	LC ₅₀	23 - >100 mg/L	Danio Rerio	96 h

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Sodium Lauryl Sulfate	EC ₅₀	5.55 mg/L	Ceriodaphnia Dubia	48 h
Sodium Laureth Sulfate	EC ₅₀	7.4 mg/L	Daphnia Magna	48 h
Coco-Betaine	EC ₅₀	6.5mg/L	Brachydanio Rerio	48 h
Cocamidopropyl Betaine	EC ₅₀	2 mg/L	Brachydanio Rerio	96 h
Ammonium Lauryl Sulfate	EC ₅₀	5-37 mg/L	Daphnia Magna	24 h
Sodium Lauryl Sulfoacetate	EC ₅₀	5.9 mg/L (OECD 201)	Daphnia Magna	48 h
Sodium Lauroyl Sarcosinate	EC ₅₀	29.7 mg/L	Daphnia Magna	48 h
Disodium Cocoamphodiacetate	EC ₅₀	25 mg/L	Daphnia Magna	48 h
Sodium Cocoyl Isethionate	EC ₅₀	> 32 mg/L (OECD 202)	Daphnia Magna	48 h

TOXICITY TO AQUATIC PLANTS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Sodium Lauryl Sulfate	EC ₅₀	> 120mg/L	Green Algae	72 h
Sodium Laureth Sulfate	EC ₅₀	27 mg/L	Desmodesmus Subspicatus	72 h
Coco-Betaine	EC ₅₀	6mg/L	Not Reported	72h
Cocamidopropyl Betaine	EC ₅₀	1.0 – 10 mg/L	Desmodesmus Subspicatus	72 h
Sodium Lauryl Sulfoacetate	EC ₅₀	1.9 mg/L	EC Biomass	96 h
Sodium Lauroyl Sarcosinate	EC ₅₀	86 mg/L	Desmodesmus Subspicatus	72 h
Disodium Cocoamphodiacetate	EC ₅₀	>100 mg/L	Not Reported	72 h
Sodium Cocoyl Isethionate	EC ₁₀	0.3 mg/L (OECD 201)	Pseudokirchneriella subcapitata	72 h
Cocamide MEA	EC ₅₀	26 mg/L	Not Reported	96 h

TOXICITY TO MICROORGANISMS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Sodium Lauryl Sulfate	EC ₅₀	0.38 mg/l	Photobacterium Phoshoreum	15 mins
Sodium Laureth Sulfate	EC ₅₀	>10g/L	Pseudomonas Putida	16 h
Coco-Betaine	EC ₅₀	>85 m/L	Not Reported	72 h
Cocamidopropyl Betaine	EC ₅₀	>100 mg/L	Pseudomonas Putida	72 h
Disodium Cocoamphodipropionate	EC ₅₀	1,000 mg/L (OECD 209)	Activated Sludge	3 h
Sodium Lauroyl Sarcosinate	EC ₅₀	> 10mg/L (GESIO 1994)	Not Reported	72 h
Disodium Cocoamphodiacetate	EC ₅₀	>100 mg/L	Not Reported	72 h
Sodium Cocoyl Isethionate	EC ₅₀	>1,000 mg/L(OECD 209)	Activated Sludge	3 h

PERSISTENCY AND DEGRADABILITY:

<i>Sodium Lauryl Sulfate:</i>	Readily biodegradable (95% in 28 days) – OECD 301
<i>Sodium Laureth Sulfate:</i>	Readily biodegradable; Half Life: 30 days (soil)
<i>Coco-Betaine:</i>	Readily biodegradable (84%)
<i>Cocamidopropyl Betaine:</i>	Readily and rapidly degradable. (> 60% BOD/COD, > 70% DOC) (OECD 301)
<i>Disodium Cocoamphodipropionate:</i>	Not readily biodegradable
<i>Ammonium Lauryl Sulfate</i>	Readily biodegradable (100% in 28 to 55 days)
<i>Sodium Lauroyl Sarcosinate:</i>	Readily biodegradable (90.9%/ in 20 days).
<i>Disodium Cocoamphodiacetate:</i>	Readily biodegradable (83% in 28 days) – OECD 302 B
<i>Sodium Cocoyl Isethionate:</i>	Readily biodegradable (78% in 28 days) – OECD 301 D
<i>Cocamide MEA:</i>	Fully degradable (28-day)

BIOACCUMULATIVE POTENTIAL:

<i>Sodium Laureth Sulfate:</i>	Not considered to be bioaccumulative.
<i>Sodium Lauryl Sulfate:</i>	Low bioaccumulation potential.
<i>Coco-Betaine:</i>	Not suspected to be bioaccumulative.
<i>Sodium Lauroyl Sarcosinate:</i>	Bioaccumulation and bioconcentration is expected because of the relatively high water solubility.
<i>Sodium Cocoyl Isethionate:</i>	Not expected to bioaccumulate (log Pow: -0.41)
<i>Cocamide MEA:</i>	Potentially bioaccumulative (log P >4)

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 meet applicable carrier transport requirements. No governmental agency specification packaging is required for this product. Fiberboard boxes for packaged products and metal/poly drums for liquid material may be used. Packaging materials should not include incompatible materials.

WASTE DISPOSAL METHOD: As manufactured, this product does not exhibit any RCRA characteristics of hazardous waste. Controlled incineration at a licensed waste facility is the recommended technology for treatment and disposal. Material must not be disposed of through sewage.

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: 0 Other: None

Workplace Hazardous Materials Identification System (WHIMS): 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 21, 2013 and all previous versions of material safety data sheets related to this product.

Preparer: Ronald Weslosky/Chandra L. Jennings

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

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

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

For further information:
1-732-499-2741

Poison Control Number: 412-390-3326

Product Name: Non-Hazardous Cosmetic/Personal Care Products

Recommendations on use: Personal care product used for cosmetic enhancement.

Restrictions on use: For external use only. Use only as directed. Refer to consumer package labeling for any associated sun protection level.

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: NONE

Symbol	Classification	Hazard Statement	Prevention Statements
No Symbol Required	NON-HAZARDOUS	NONE	NONE

This material is not considered hazardous by the U.S. Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200)

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

Hazards Not Otherwise Classified: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

No hazardous constituents requiring notification

SECTION 4: FIRST AID MEASURES

Response Statements:

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

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

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

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

SYMPTOMS/EFFECTS: Direct eye contact may cause watering, stinging or itching eyes. Possible skin dryness/irritation if over-exposed.

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

SECTION 5: FIRE-FIGHTING MEASURES

Notes for Non-Emergency Personnel:

EXTINGUISHING MEDIA: In case of fire use carbon dioxide, dry chemical, foam and/or water spray for extinction. 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: Follow National Fire Protection Association Guidelines or local guidelines appropriate for emergency response.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None required.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Notes for non-emergency personnel:

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

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

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

Notes for those trained to participate in an emergency:

ACCIDENTAL RELEASE MEASURES: Dike and contain the free liquid and absorb on vermiculite or spill pillows/pads. Solidified materials should be placed in sturdy containers for disposal. Place spill residual in appropriate containers for disposal. Wash area completely with water. Avoid contact with wet surfaces or walkways that may become slick when residue is present. Prohibit discharge to drains, soil, surface and ground waters.

Recommendations for personal protective equipment selection are noted above. Dispose in accordance with section 13 of this document.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Do not eat, drink or smoke while working with chemical 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.

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

CONDITIONS FOR SAFE STORAGE:

Storage precautions for unpackaged product (manufacturing environment): Store in a well-ventilated place and keep cool. Keep containers closed when not in use. Store where releases can easily be contained.

Storage precautions for packaged product: See consumer packaging.

Keep away from open drains and access to the environment.

Incompatible materials: None known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

OCCUPATIONAL EXPOSURE VALUES:

Component Name (CAS-No.)	Reference	TWA		STEL/CEILING	
		ppm	mg/m ³	ppm	mg/m ³
No OEVs have been established for noted constituents.	OSHA PEL	--	--	--	--
	ACGIH TLV	--	--	--	--
	NIOSH REL	--	--	--	--

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

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

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

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

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

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

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

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid to cream
ODOR:	Not Available
ODOR THRESHOLD:	Not Available
pH:	Not Available
MELTING/FREEZING POINT:	F: ~ 0 C: ~ 32
BOILING POINT:	F: ~ 212 C: ~ 100
FLASH POINT:	F: > 212 C: > 100 METHOD USED: Closed cup
EVAPORATION RATE:	< 1 (Butyl acetate = 1)
FLAMMABILITY:	Not Applicable to Liquids
FLAMMABLE LIMITS IN AIR:	Not Applicable
VAPOR PRESSURE (mmHg):	@ F: Not Available @ C: Not Available
VAPOR DENSITY (AIR = 1):	@ F: Not Available @ C: Not Available
RELATIVE DENSITY (H2O = 1):	Not Available
SOLUBILITY IN WATER:	Not Available
PARTITION COEFFICIENT:	Not Available
AUTOIGNITION TEMPERATURE:	Not Available
DECOMPOSITION TEMPERATURE:	Not Available
VISCOSITY:	Not Available

SECTION 10: STABILITY AND REACTIVITY

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

STABILITY: Product is stable.

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

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS:

SKIN CORROSION/IRRITATION: Possible skin dryness/irritation if over-exposed.

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

RESPIRATORY/SKIN SENSITIZATION: None expected

INGESTION: Harmful if swallowed

INHALATION: None expected

ROUTES OF EXPOSURE: Inhalation, eyes, skin, ingestion

SYMPTOMS: Direct eye contact may cause watering, stinging or itching eyes. Possible skin dryness/irritation if over-exposed.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

ACUTE TOXICOLOGY DATA FOR COMPONENTS

No Data

Skin Corrosion/Irritation:

No Data

Serious Eye Damage/Irritation:

No Data

Respiratory Irritation:

No Data

Skin Sensitization:

No Data

CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:

No Data

CARCINOGENICITY:

Component Name (CAS-No.)	OSHA	ACGIH	NTP	IARC
None established	--	--	--	--

MUTAGENICITY:

No Data

REPRODUCTIVE TOXICITY:

No Data

DEVELOPMENTAL TOXICITY/TERATOGENICITY:

No Data

SECTION 12: ECOLOGICAL INFORMATION

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

ACUTE AND PROLONGED TOXICITY TO FISH

No Data

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

No Data

TOXICITY TO AQUATIC PLANTS

No Data

TOXICITY TO MICROORGANISMS

No Data

PERSISTENCY AND DEGRADABILITY:

No Data

BIOACCUMULATIVE POTENTIAL:

No Data

SECTION 13: DISPOSAL CONSIDERATIONS

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

WASTE DISPOSAL CONTAINERS: Appropriate containers should be utilized which may include cardboard boxes for products, metal or plastic drums.

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

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 (Domestic/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: 0 Fire: 1 Reactivity: 0 Other: None

Workplace Hazardous Materials Identification System: None

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

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: This document replaces the version dated May 10, 2000 and all previous versions of safety data sheet related to this product.

Author: Ronald Weslosky (Corporate Regulatory Services)