L'ORÉAL USA

SAFETY DATA SHEET

SDS # 15-190

ISSUANCE DATE: May 11, 2015

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: Garnier Nutrisse Multi-Lights Highlighting Powder, Garnier Color Breaks Lightening Powder, L'Oreal Chunking Blocks of Highlights Lightening Powder, L'Oreal Colour Rays Highlighting Powder, L'Oreal Design & Frost Lightening Powder, L'Oreal la Petite Frost Lightening Powder, L'Oreal Professionnel Platine Precision De-dusted Powder Lightener, L'Oreal Technique Super Oreal Blanc Powder Bleach, L'Oreal Touch-On Highlighting Powder, L'Oreal Couleur Experte Illuminating Powder

Recommendations on use: Personal care product to be mixed with companion product(s) in accordance with instructions and applied to hair for lightening effect.

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

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: DANGER

Symbol	Classification	Hazard Statement	Prevention Statements
	Oxidizing Solids Category 2	May intensify fire Oxidizer	• Keep away from heat. Keep/Store away from metal and combustible materials. • Take any precaution to avoid mixing with combustibles.
	Eye Damage Category 1	Causes serious eye damage	• Wash hands and all skin surfaces contacted thoroughly after handling • Wear nitrile or vinyl gloves. Wear eye protection appropriate for the manufacturing operation being performed (goggles or face shield).

Symbol	Classification	Hazard Statement	Prevention Statements
	Sensitization Respiratory	May cause allergy or asthma symptoms or breathing difficulties if inhaled	• Avoid breathing dust. • In case of inadequate ventilation wear respiratory protection
	Acute Toxicity Oral Category 4	Harmful if swallowed	• Do not eat, drink or smoke when using this product
No symbol Required	Sensitization – Skin Category 1	May cause an allergic skin reaction	• Contaminated work clothing must not be allowed out of the workplace
No symbol Required	Skin Irritation Category 2	Causes skin irritation	• See prevention statements above
No symbol Required	Specific Target Organ Toxicity (Single Exposure) Category 3	May cause respiratory irritation	• Use only outdoors or in a well-ventilated area

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/directions before use. Keep from heat and moisture. Do not use metal utensils.

Hazards Not Otherwise Classified: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Only hazardous constituents associated with the product are listed below

INGREDIENT:	CAS NO.	% WT
Magnesium Peroxide	1335-26-8	≤ 0.5%
EDTA	60-00-4	≤ 0.8%
Titanium Dioxide	13463-67-7	≤ 0.8%
Sodium Metasilicate	6834-92-0	≤ 1.6%
Diethylhexyl Sodium Sulfosuccinate	577-11-7	≤ 2.0%
Ammonium Chloride	12125-02-9	≤ 3.0%
Sodium Persulfate	7775-27-1	≤ 11.0%
Sodium Silicate	1344-09-8	≤ 23.0%
Potassium Persulfate	7727-21-1	≤ 39.0%

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 until material is sufficiently removed from the eye. **If eye irritation persists:** Immediately call a poison control center or get medical advice/attention.

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

IF INHALED: If breathing is difficult, remove person to fresh air and keep in a position comfortable for breathing. **If experiencing respiratory symptoms:** Call a poison control center or get medical advice/attention.

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious individual. Call a poison control center or get medical advice/attention if you fell unwell.

SYMPTOMS/EFFECTS: Causes serious eye damage. May cause asthma symptoms or breathing difficulties. Harmful if swallowed. May cause an allergic skin reaction. Causes skin irritation. May cause respiratory irritation.

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 and/or foam to extinguish. Water spray may be used to soak other materials surrounding the product, to prevent the spread of the fire. Selection of a fire extinguisher should also be appropriate to address the location of the fire and equipment involved. 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: Persulfates yield oxygen and may stimulate combustion of flammable and combustible materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal degradation may produce oxygen, ammonia, oxides of carbon, sulfur, 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 and where mixture with organic material is possible. 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, the material can be swept up or wiped with damp towels/sponges 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 and protective clothing (e.g. apron) may be required for clean-up of large releases. 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 particulate cartridges. See also section 8 of this document.

Notes for those trained to participate in an emergency:

ACCIDENTAL RELEASE MEASURES: Materials in powder form are not expected to migrate greatly during release. Released material should be swept up and accumulated in appropriate UN specification containers while minimizing dust generation. Wash area completely with water. Take care to avoid contact with wet surfaces or walkways that may become slick when residue is present. Rinse response equipment (e.g. towels, sponges, mops) thoroughly prior to disposal or storage. 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 hazardous chemicals. Employees should be advised to wear appropriate protective equipment in the manufacturing environment. See section 8 of this document for protective equipment selection. Use only with adequate ventilation and avoid inhalation. Avoid contact with eyes and skin. Do not use with metal utensils. 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): Keep in a cool and well-ventilated area. Keep containers closed when not in use. Store away from moisture. Do not store metal utensils with product. This material should be stored locked up in an area where production inventory may be controlled by authorized personnel. Store in a location where spill containment will be easily accessible and releases can be contained.

Storage precautions for packaged product: See consumer packaging.

Keep away from open drains and access to the environment.

Incompatible materials: Organic compounds and reducing agents. Store away from incompatible materials and moisture.

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
Titanium Dioxide (13463-67-7)	OSHA PEL	--	15º	--	--
	ACGIH TLV	--	10	--	--
	NIOSH REL	--	--	--	--
Ammonium Chloride (Fume) (12125-02-9)	OSHA PEL	--	--	--	--
	ACGIH TLV	--	10	--	20
	NIOSH REL	--	10	--	20
Sodium Persulfate (7775-27-1)	OSHA PEL	--	--	--	--
	ACGIH TLV	--	0.1	--	--
	NIOSH REL	--	--	--	--
Potassium Persulfate (Persulfates) 7727-21-1	OSHA PEL	--	--	--	--
	ACGIH TLV	--	0.1	--	--
	NIOSH REL	--	--	--	--

Notes: º (OSHA) – Total Dust

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. 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.

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. Contact with eyes should be avoided. For handling of large quantities of material, safety glasses with side shields/goggles are recommended.

Skin Protection (Non-Emergency): Gloves should be worn when mixing kit components and applying mixture. 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 such may be considered. Ensure that the respirator meets current local occupational health and safety standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Finely divided, free-flowing powder
ODOR:	Not Available
ODOR THRESHOLD:	Not Available
pH:	9.9 – 10.5 (Solution)
MELTING/FREEZING POINT:	**F:** Not Available **C:** Not Available
BOILING POINT:	**F:** Not Available **C:** Not Available
FLASH POINT:	**F:** > Not Applicable **C:** >Not Applicable **METHOD USED:** Not Applicable
EVAPORATION RATE:	Not Applicable
FLAMMABILITY:	Not Applicable
VAPOR PRESSURE (mmHg):	@ 70F: Not Available @ 21 C: Not Available
VAPOR DENSITY (AIR = 1):	@ 70F: Not Available @ 21 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: Heat, moisture and contamination with organic materials and metal utensils.

INCOMPATIBILITY (MATERIAL TO AVOID): Organic compounds and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal degradation may produce oxygen, ammonia, oxides of carbon, sulfur, 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: Causes skin irritation
SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye damage
RESPIRATORY/SKIN SENSITIZATION: May cause allergic reaction/breathing difficulty; May cause allergic skin reaction
INGESTION: Harmful if swallowed.
INHALATION: May cause respiratory irritation

ROUTES OF EXPOSURE: Eyes, skin, ingestion, inhalation

SYMPTOMS: Causes serious eye damage. May cause asthma symptoms or breathing difficulties. Harmful if swallowed. May cause an allergic skin reaction. Causes skin irritation. May cause respiratory irritation.

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.

ACUTE TOXICOLOGY DATA FOR COMPONENTS

Material	Route	Species	Test Results
EDTA	Oral LD_{50}	Rat (OECD 401 eq.)	4,500 mg/kg bw
EDTA	Inh. LC_{50} (6h)	Rat (Dust)	>1 mg/l air
Titanium Dioxide	Oral LD_{50}	Rat	>5,000 mg/kg bw
Sodium Metasilicate	Oral LD_{50}	Rat	1,152 mg/kg bw
Diethylhexyl Sodium Sulfosuccinate	Oral LD_{50}	Rat (OECD 401 eq.)	4,200 mg/kg bw
Diethylhexyl Sodium Sulfosuccinate	Dermal LD_{50}	Rabbit (OECD 402 eq.)	>10,000 mg/kg bw
Ammonium Chloride	Oral LD_{50}	Rat (OECD 401 eq.)	1,410 mg/kg bw
Ammonium Chloride	Dermal LD_{50}	Rat (EU Method B.3)	>2,000 mg/kg bw
Sodium Persulfate	Oral LD_{50}	Rat (OECD 401 eq.)	920 mg/kg bw
Sodium Persulfate	Dermal LD_{50}	Rabbit	>10,000 mg/kg bw
Sodium Persulfate	LC_{50} (4 hr)	Rat (OECD 403)	>5.1 mg/l air
Sodium Silicate	Oral LD_{50}	Rat (OECD 401 eq.)	3,400 mg/kg bw
Sodium Silicate	Dermal LD_{50}	Rat	>5,000 mg/kg bw
Potassium Persulfate	Oral LD_{50}	Rat (OECD 401 eq.)	1,130 mg/kg bw
Potassium Persulfate	Dermal LD_{50}	Rabbit	>10,000 mg/kg bw
Potassium Persulfate	LC_{50} (1 hr)	Rat	>42.9 mg/l air

Skin Corrosion/Irritation:
EDTA: Not Irritating (Rabbit)
Titanium Dioxide: Not Irritating (Rabbit)
Sodium Metasilicate: Corrosive (Rabbit, OECD 404)
Diethylhexyl Sodium Sulfosuccinate: Irritating (Rabbit, OECD 404)
Ammonium Chloride: Not Irritating (Rabbit, Draize)
Sodium Persulfate: Irritating (Rabbit)
Sodium Silicate: Corrosive (≥ 28%); Irritating (<28%) (Rabbit, 16 CFR 1500.42)
Potassium Persulfate: Irritating (Rabbit)

Serious Eye Damage/Irritation:

EDTA:	Irritating (Rabbit)
Titanium Dioxide:	Not Irritating (Rabbit)
Sodium Metasilicate:	Corrosive (In Vitro, IRE)
Diethylhexyl Sodium Sulfosuccinate:	Corrosive (Rabbit, OECD 405)
Ammonium Chloride:	Irritating (Rabbit)
Sodium Persulfate:	Irritating (Rabbit)
Sodium Silicate:	Corrosive (≥ 39%); Irritating (<39%) (Rabbit, OECD 404)
Potassium Persulfate:	Irritating (Rabbit)

Respiratory Irritation:

Sodium Metasilicate:	Irritating
Sodium Persulfate:	Irritating (Human)
Sodium Silicate:	Irritating
Potassium Persulfate:	Irritating (Human)

Skin Sensitization:

EDTA:	Not Sensitizing (Guinea Pig, OECD 406)
Sodium Metasilicate:	Not Sensitizing (Guinea Pig, OECD 429)
Diethylhexyl Sodium Sulfosuccinate:	Not Sensitizing (Human, RIPT)
Ammonium Chloride:	Not Sensitizing (Guinea Pig, GPMT)
Sodium Persulfate:	Sensitizing (Guinea Pig, OECD 406)
Sodium Silicate:	Not Sensitizing (Human, RIPT)
Potassium Persulfate:	Sensitizing (Mouse, OECD 429 eq.)

CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:

NOAEL (*Titanium Dioxide*, oral): 24,000 mg/kg (Rat)
NOAEL (*Sodium Metasilicate,* oral): >227 mg/kg bw/day (Rat, 90d)
NOAEL (*Diethylhexyl Sodium Sulfosuccinate*, oral): 750 mg/kg/day (Rat, OECD 408 eq., 90d)
NOAEL (*Ammonium Chloride,* oral): 1,695 mg/kg bw/day (Rat, OECD 408 eq., 90d)
LOAEL (*Sodium Persulfate*): 200 mg/kg bw/day (Rat, OECD 408 eq., 90d)
NOAEL (*Sodium Silicate,* oral): 2,400 mg/kg bw/day (Rat, OECD 407 eq., 90d)
NOAEL (*Potassium Persulfate*, oral): 131.5 mg/kg bw/day (Rat, OECD 407 eq., 28d)

CARCINOGENICITY:

Component Name (CAS-No.)	OSHA	ACGIH	NTP	IARC
Titanium Dioxide (13463-67-7)	--	TLV-A4	--	IARC-2B

ACGIH TLV-A4 – This reference indicates that the material is "Not Classifiable as a Human Carcinogen".
IARC-2B – This reference indicates that the material is "Possibly Carcinogenic to Humans"

These products may contain titanium dioxide which has received its carcinogenic classification based on exposure in the respirable form. These materials in this product are not in their respirable form and are intended for application to hair.

MUTAGENICITY:

Titanium Dioxide:	A variety of *in vitro* tests have produced negative results.
Sodium Metasilicate:	A variety of *in vitro* and i*n vivo* tests have products negative results.
Diethylhexyl Sodium Sulfosuccinate:	A variety of *in vitro* tests have products negative results.
Ammonium Chloride:	A variety of *in vivo* tests have produced negative results.
Sodium Persulfate:	A variety of *in vitro* and i*n vivo* tests have products negative results.
Sodium Silicate:	A variety of *in vitro* and i*n vivo* tests have products negative results.
Potassium Persulfate:	A variety of *in vitro* tests have produced negative results.

REPRODUCTIVE TOXICITY:

Diethylhexyl Sodium Sulfosuccinate: NOEL: 1% (Rat, OECD 416 eq.) – No reproductive effects
Sodium Silicate: NOAEL: >159 mg/kg bw/d (Rat) – No reproductive effects

DEVELOPMENTAL TOXICITY/TERATOGENICITY:

EDTA: NOAEL: ≥ 967 mg/kg bw/d (Rat) – No developmental effects
Sodium Metasilicate: NOAEL: > 200 mg/kg bw/day (Mouse)
Diethylhexyl Sodium Sulfosuccinate: NOAEL: 1,074 mg/kg bw/d (Rat, OECD 414 eq.) – No developmental effects
Ammonium Chloride: NOAEL: 8.9 mg/kg (Rat) – No development effects

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

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
EDTA	LC_{50}	159 mg/L	Lepomis macrochirus	96 h
Titanium Dioxide	LC_{50}	>1,000 mg/L	Leuciscusidus idus	48 h
Sodium Metasilicate	LC_{50} (ISO 7346)	210 mg/L	Danio rerio	96 h
Diethylhexyl Sodium Sulfosuccinate	LC_{50} (OECD 203)	27.2 mg/L	Oncorhynchus mykiss	96 h
Ammonium Chloride	LC_{50} (APHA E03-05)	209 mg/L	Cyprinus carpio	96 h
Sodium Persulfate	LC_{50} (EPA OPP 72-1)	163 mg/L	Oncorhynchus mykiss	96 h
Sodium Silicate	LC_{50} (OECD 203)	1,108 mg/L	Danio rerio	96 h
Potassium Persulfate	LC_{50}	76 mg/L	Oncorhynchus mykiss	96 h

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
EDTA	EC_{50} (DIN 38412, 11)	625 mg/L	Daphnia Magna	25 h
Diethylhexyl Sodium Sulfosuccinate	EC_{50} (OECD 202 eq.)	34.0 mg/L	Daphnia Magna	48 h
Ammonium Chloride	EC_{50} (ASTM E729-80)	101 mg/L	Daphnia Magna	48 h
Sodium Persulfate	EC_{50} (EPA OPP 72-2)	133 mg/L	Daphnia Magna	48 h
Sodium Silicate	EC_{50} (EU Method C.2)	1,700 mg/L	Daphnia Magna	48 h
Potassium Persulfate	EC_{50}	120 mg/L	Daphnia Magna	48 h

TOXICITY TO AQUATIC PLANTS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Titanium Dioxide	EC_{50}	61 mg/L	Pseudokirchneriella subcapitata	72 h
Diethylhexyl Sodium Sulfosuccinate	EC_{50} (EU Method C.3)	82.5 mg/L	Desmodesmus subspicatus	72 h
Ammonium Chloride	EC_{50}	1,300 mg/L	Chlorella vulgaris	5 d
Sodium Persulfate	EC_{50} (OECD 201)	116 mg/L	Pseudokirchneriella subcapitata	72 h
Sodium Silicate	EC_{50} (DIN 38412, 9)	>345.4 mg/L	Desmodesmus subspicatus	72 h

TOXICITY TO MICROORGANISMS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
EDTA	EC_{50}	2.4 mmol/L	Microorganism	24 h
Titanium Dioxide	EC_{50}	5-30 mg/L	Activated Sludge	3 h
Sodium Metasilicate	EC_{50} (OECD 209)	> 100 mg/L	Activated Sludge	3 h
Diethylhexyl Sodium Sulfosuccinate	EC_{50} (DIN 38412, 8)	164 mg/L	Pseudomonas putida	16.5 h
Ammonium Chloride	EC_{50} (OECD 209)	1,618 mg/L	Activated Sludge	30 min

Sodium Silicate	EC_0 (DIN 38412, 27)	3,454 mg/L	Pseudomonas putida	30 min

PERSISTENCY AND DEGRADABILITY:
EDTA: 37% (14d) – OECD 302 B – Inherently Biodegradable
Diethylhexyl Sodium Sulfosuccinate: 91.2% (28d) – ISO 14593 – Readily Biodegradable

BIOACCUMULATIVE POTENTIAL:
EDTA: BCF: 1.1; log Pow: -3.86 (Est.) – Not expected to bioaccumulate
Sodium Metasilicate: Not expected to bioaccumulate
Ammonium Chloride: log Pow: -4.37 – Not expected to bioaccumulate
Sodium Persulfate: Not expected to bioaccumulate
Sodium Silicate: Not expected to bioaacumulate
Potassium Persulfate: Not expected to bioaccumulate

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 US DOT containers should be utilized which may include cardboard boxes for products, plastic/lined drums for solids. These containers should meet the packaging specifications required for DOT compliance. Packaging containers must not include incompatible materials.

WASTE DISPOSAL METHOD: As manufactured, this product exhibits the ignitable (D001) RCRA characteristic 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: D001

Follow all local governmental requirements intended for disposal.

SECTION 14: TRANSPORT INFORMATION

North American Ground Transportation

- **IN CONSUMER PACKAGING:** Limited Quantity/Consumer Commodity (≤ 1 kg)
  UN ID Number: UN 1479
  Proper Shipping Name: Oxidizing solid, n.o.s.
  Technical Name: Potassium persulfate, sodium persulfate
  Hazard Class: 5.1
  Packing Group: II
  Label Statements: Exempt – Limited Quantity Marking Only

- **OTHER THAN CONSUMER PACKAGING:**
  UN ID Number: UN 1479
  Proper Shipping Name: Oxidizing solid, n.o.s.
  Technical Name: Potassium persulfate, sodium persulfate
  Hazard Class: 5.1
  Packing Group: II
  Label Statements: Oxidizing (Division 5.1)

Transport Via Water

- **IN CONSUMER PACKAGING:** Limited Quantity/Consumer Commodity (≤ 1 kg)
  UN ID Number: UN 1479
  Proper Shipping Name: Oxidizing solid, n.o.s.
  Technical Name: Potassium persulfate, sodium persulfate
  Hazard Class: 5.1
  Packing Group: II
  Label Statements: Exempt – Limited Quantity Marking Only

- **OTHER THAN CONSUMER PACKAGING:**
  UN ID Number: UN 1479
  Proper Shipping Name: Oxidizing solid, n.o.s.
  Technical Name: Potassium persulfate, sodium persulfate
  Hazard Class: 5.1
  Packing Group: II
  Label Statements: Oxidizing (Division 5.1)

Transport Via Air (Domestic/International)

- **IN CONSUMER PACKAGING:** Limited Quantity (≤ 0.5 kg) (*Not eligible for ID 8000, Consumer Commodity*)
  UN ID Number: UN 1479
  Proper Shipping Name: Oxidizing solid, n.o.s.
  Technical Name: Potassium persulfate, sodium persulfate
  Hazard Class: 5.1
  Packing Group: II
  Label Statements: Limited Quantity Marking & Oxidizer (Division 5.1)

- **OTHER THAN CONSUMER PACKAGING:**
  UN ID Number: UN 1479
  Proper Shipping Name: Oxidizing solid, n.o.s.
  Technical Name: Potassium persulfate, sodium persulfate
  Hazard Class: 5.1
  Packing Group: II
  Label Statements: Oxidizing (Division 5.1)

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

SECTION 15: REGULATORY INFORMATION

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

Workplace Hazardous Materials Identification System: Class C; Oxidizing Material; Class D; Division 2, Subdivision B; Corneal Damage/Skin Irritation;

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)

L'ORÉAL USA

SAFETY DATA SHEET

SDS # 99-029

ISSUANCE DATE: April 25, 2019

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 US (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: High Volume (30 – 40 Vol.) Hair Developers

Recommendations on use: Personal care product to be mixed with companion products in accordance with instructions and applied to hair.

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: DANGER

Symbol	Classification	Hazard Statement	Prevention Statements
	Serious Eye Damage Category 1	Causes serious eye damage	• Wash hands, face and all skin surfaces contacted thoroughly after handling. • Wear eye protection appropriate for the manufacturing operation being performed (goggles or face shield).
	Oxidizing Liquid Category 3	May intensify fire, oxidizer	• Keep away from heat. • Keep/Storage away from combustibles (e.g. paper), organics, and metals (e.g. iron). • Take precaution to avoid mixing with combustible and organic materials. • Wear nitrile or vinyl gloves.

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 insert/label before use. Over-exposure may cause skin dryness or slight irritation. Prolonged contact may lighten skin.

Hazards Not Otherwise Classified: None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Only hazardous constituents associated with the product are listed below

INGREDIENT:	CAS NO.	% WT
Hydrogen Peroxide	7722-84-1	9 – 12%

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 until material is sufficiently removed from the eye. **If eye irritation persists:** Immediately call a poison control center or get medical advice/attention.

IF ON SKIN: If skin irritation occurs: Wash with plenty of water. Remove all contaminated clothing and launder before reuse. **If skin irritation persists:** Get medical attention. In cases where discomfort persists and/or medical attention is sought, do not use hair color products until the nature of the skin reaction and the causative agent has been identified.

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: Causes serious eye damage. Over-exposure may cause skin dryness or slight irritation.

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: Decomposition may yield oxygen and increase the burning rate of flammable/combustible materials. Observe all appropriate precautions for handling hazardous materials.

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

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, dilute with water and absorb liquid with noncombustible material while wearing the protective equipment as noted below. Clean the area with detergent and water. 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.

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 used depending upon the size of the spill and occupational exposure limits. 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. Residual product on towels, sponges, or mops may create a combustion hazard. Thoroughly rinse potentially combustible materials prior to disposal or storage. Place spent absorbents in UN specification drums for disposal. Wash area completely with water. Take care to 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 hazardous materials. Avoid contact with skin, eyes, and clothing. Employees should be advised to wear appropriate protective equipment in the manufacturing environment. See section 8 of this document for protective equipment selection. Avoid contamination with combustible organic materials (e.g. oil, sawdust, damp paper towels, etc…), metal, powder or reducing agents. 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 original container in a well-ventilated place and keep cool. Keep containers closed when not in use. Do not store any tint, lightener lotion or bleach powder after it has been mixed with developer. Store separately from combustible materials. Minimize inventory. Appropriate fire suppression and detection equipment should be utilized. Store on spill pallets or other locations where spill containment will be easily accessible.

Storage precautions for packaged product: See consumer packaging.

Keep away from open drains and access to the environment.

Incompatible materials: Combustibles (e.g. wood, paper, oil), organics (e.g. alcohols, glycerols, etc…), metals (e.g. iron, copper, metal alloys) and reducing agents. Store away from incompatible materials.

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
Hydrogen Peroxide (7722-84-1)	OSHA PEL	1	1.4	--	--
	ACGIH TLV	1	1.4	--	--
	NIOSH REL	1	1.4	--	--

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.

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): Gloves should be worn when mixing hair color components and applying mixture. 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: White liquid/cream

ODOR: No fragrance

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:** Not Applicable **C:** Not Applicable **METHOD USED:**

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

FLAMMABILITY: Not Applicable

FLAMMABLE LIMITS IN AIR: Not Applicable

VAPOR PRESSURE (mmHg): Not Available

VAPOR DENSITY (AIR = 1): @ 70F: N/A @ 21 C: N/A

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

STABILITY: Product is stable.

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

CONDITIONS TO AVOID: Heat and sunlight. Contamination with incompatibles.

INCOMPATIBILITY (MATERIAL TO AVOID): Combustibles (e.g. wood, paper, oil), organics (e.g. alcohols, glycerols, etc…), metals (e.g. iron, copper, metal alloys) and reducing agents.

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

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: Over-exposure may cause skin dryness or slight irritation
SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye damage
RESPIRATORY/SKIN SENSITIZATION: None expected
INGESTION: None expected
INHALATION: None expected

ROUTES OF EXPOSURE: Inhalation, eyes, skin, ingestion

SYMPTOMS: Causes serious eye damage. Over-exposure may cause skin dryness or slight irritation. Prolonged contact may lighten skin.

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

ACUTE TOXICOLOGY DATA FOR COMPONENTS

Material	Route	Species	Test Results
Hydrogen Peroxide (10%)	Oral LD_{50}	Rat	>5,000 mg/kg
Hydrogen Peroxide (70%)	Dermal LD_{50}	Rabbit	9,200 mg/kg
Hydrogen Peroxide (35%)	Dermal LD_{50}	Rabbit	>2,000 mg/kg
Hydrogen Peroxide (50%)	LC_{50} (4 hr, vapor)	Rat	170 mg/m^3

Skin Corrosion/Irritation:
Hydrogen Peroxide: Not Irritating (<35%); Irritating (35-50%); Corrosive (>50%) (Rat, OECD 405)

Serious Eye Damage/Irritation:
Hydrogen Peroxide: Irritating (≤ 8%); Corrosive (>8%) (Rat, OECD 404)

Respiratory Irritation:
No Data

Skin Sensitization:
Hydrogen Peroxide: Not Sensitizing (Guinea Pig, OECD 406)

CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:
NOAEL (Hydrogen Peroxide, oral): 26 mg/kg/bw/day (100 ppm) (Mouse, 90d, OECD 408)
NOAEL (Hydrogen Peroxide, inh.): 2.9 mg/m^3 air (Rat, 28d, OECD 412)

CARCINOGENICITY:

Component Name (CAS-No.)	OSHA	ACGIH	NTP	IARC
Hydrogen Peroxide (7722-84-1)	**--**	**TLV-A3**	**--**	**IARC-3**

ACGIH TLV-A3 - This reference indicates that the material is "Confirmed Animal Carcinogen with Unknown Relevance to Humans".
IARC-3 **-** This reference indicates that the material is "Unclassifiable as to Carcinogenicity to Humans".

MUTAGENICITY:
Hydrogen Peroxide: A variety of *in vivo* tests have produced negative results. High percentages have produced positive responses under *in vitro* test systems.

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

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Hydrogen Peroxide	LC_{50} (US EPA Method)	16.4 mg/L	Pimephales promelas	96 h

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Hydrogen Peroxide	EC_{50} (US EPA Method)	2.4 mg/L	Daphnia pulex	48 h

TOXICITY TO AQUATIC PLANTS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Hydrogen Peroxide	EC_{50} (OECD 201)	2.5 mg/L	Chlorella vulgaris	72 h

TOXICITY TO MICROORGANISMS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Hydrogen Peroxide	EC_{50} (OECD 209)	466 mg/L	Activated Sludge	30 min

PERSISTENCY AND DEGRADABILITY:
Hydrogen Peroxide: Readily Biodegradable – OECD 209 – >99% (30 min)

BIOACCUMULATIVE POTENTIAL:
Hydrogen Peroxide: log Kow: -1.57 (Est.) – No bioaccumulation expected

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 USDOT packaging specifications. 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 ignitable (D001) RCRA hazardous wastes when intended for disposal. Physical and/or chemical deactivation at a hazardous waste facility is the recommended technology for treatment and disposal. This material must not be disposed through sewage.

RCRA HAZARD CLASS: D001

Follow all local governmental requirements intended for disposal.

SECTION 14: TRANSPORT INFORMATION

North American Ground Transportation

- **IN CONSUMER PACKAGING:** Limited Quantity/Consumer Commodity (≤ 5 L)
  UN ID Number: UN 2984
  Proper Shipping Name: Hydrogen peroxide, aqueous solutions
  Hazard Class: 5.1
  Packing Group: III
  Label Statements: Exempt – Limited Quantity Marking Only

- **OTHER THAN CONSUMER PACKAGING:**
  UN ID Number: UN 2984
  Proper Shipping Name: Hydrogen peroxide, aqueous solutions
  Hazard Class: 5.1
  Packing Group: III
  Label Statements: Oxidizer (Division 5.1)

Transport Via Water

- **IN CONSUMER PACKAGING:** Limited Quantity (≤ 5 L)
  UN ID Number: UN 2984
  Proper Shipping Name: Hydrogen peroxide, aqueous solutions
  Hazard Class: 5.1
  Packing Group: III
  Label Statements: Exempt – Limited Quantity Marking Only

- **OTHER THAN CONSUMER PACKAGING:**
  UN ID Number: UN 2984
  Proper Shipping Name: Hydrogen peroxide, aqueous solutions
  Hazard Class: 5.1
  Packing Group: III
  Label Statements: Oxidizer (Division 5.1)

Transport Via Air (Domestic/International)

- **IN CONSUMER PACKAGING:** Limited Quantity (≤ 0.5 L) (*Not eligible for ID 8000, Consumer Commodity*)
  UN ID Number: UN 2984
  Proper Shipping Name: Hydrogen peroxide, aqueous solutions
  Hazard Class: 5.1
  Packing Group: III
  Label Statements: Limited Quantity Marking & Oxidizer (Division 5.1)

- **OTHER THAN CONSUMER PACKAGING:**
  UN ID Number: UN 2984
  Proper Shipping Name: Hydrogen peroxide, aqueous solutions
  Hazard Class: 5.1
  Packing Group: III
  Label Statements: Oxidizer (Division 5.1)

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

SECTION 15: REGULATORY INFORMATION

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

Workplace Hazardous Materials Identification System: Class C; Oxidizing Material ; Class E; Corrosive Material

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

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: This document replaces the version dated May 27, 2015 and all previous versions of safety data sheets related to this product.

Author: Ronald Weslosky (Corporate Regulatory Services)

L'ORÉAL USA

SAFETY DATA SHEET

SDS # Non-Haz

ISSUANCE DATE: April 30, 2015

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 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)

L'ORÉAL USA

SAFETY DATA SHEET

SDS # 99-009

ISSUANCE DATE: July 24, 2014

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	• 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).

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:	CAS NO.	% WT
Sodium Lauryl Sulfate	85586-07-8	≤ 40%
Sodium Laureth Sulfate	3088-31-1	≤ 30%

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 launder 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 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.

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

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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 my 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

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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:

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

Serious Eye Damage/Irritation:

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

Respiratory Irritation:

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

Skin Sensitization:

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

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CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:

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

MUTAGENICITY:

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

REPRODUCTIVE TOXICITY

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

DEVELOPMENTAL TOXICITY/TERATOGENICITY

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

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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

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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 (CESIO 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:

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

BIOACCUMULATIVE POTENTIAL:

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

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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

SAFETY DATA SHEET

SOFTSHEEN·CARSON®

1. Identification

Product identifier **SOFTSHEEN-CARSON DARK AND LOVELY GO INTENSE ULTRA VIBRANT COLOR - GROUP 5**

Other means of identification

SDS number 80-21-0000410

Recommended use Personal care product used for cosmetic effect.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

US Address:
L'Oreal USA Products, Inc
133 Terminal Avenue
Clark, NJ 07066
USA

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

Emergency Phone # :
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 # : 412-390-3326

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards

Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation

OSHA defined hazards Not classified.

Label elements

Signal word Danger

Hazard statement Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.

Precautionary statement

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.

Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
MINERAL OIL		8042-47-5	8.8
ETHANOLAMINE		141-43-5	5
AMMONIUM HYDROXIDE		1336-21-6	< 5
STEARETH-20		9005-00-9	2.75

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
AMMONIUM HYDROXIDE (CAS 1336-21-6)	PEL	35 mg/m3	
		50 ppm	
ETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
MINERAL OIL (CAS 8042-47-5)	PEL	5 mg/m3	Mist.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	35 ppm	
	TWA	25 ppm	
ETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
MINERAL OIL (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	27 mg/m3	
		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
ETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
MINERAL OIL (CAS 8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection	Applicable for industrial settings only. Chemical respirator with organic vapor cartridge and full facepiece.
Skin protection	
Hand protection	Applicable for industrial settings only. Wear appropriate chemical resistant gloves.
Other	Applicable for industrial settings only. Wear appropriate chemical resistant clothing.
Respiratory protection	Applicable for industrial settings only. Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Cream.
Color	Not available.
Odor	Characteristic.
Odor threshold	Not available.
pH	9.9 - 11.1
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 212 °F (> 100 °C)
Flash point	> 212.0 °F (> 100.0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Information on toxicological effects

Acute toxicity Not known.

Product	Species	Test Results
SOFTSHEEN-CARSON DARK AND LOVELY GO INTENSE ULTRA VIBRANT COLOR - GROUP 5		
Acute		
Dermal		
ATEmix		50100 mg/kg
Oral		
ATEmix		6094 mg/kg

Components	Species	Test Results
AMMONIUM HYDROXIDE (CAS 1336-21-6)		
Acute		
Inhalation		
LC50	Rat	11590 mg/l, 1 h
Oral		
LD50	Rat	350 mg/kg bw OECD 401
ETHANOLAMINE (CAS 141-43-5)		
Acute		
Dermal		
LD50	Rabbit	2504 mg/kg OECD 402
Inhalation		
Vapor		
LC50	Rat	> 1.3 mg/l, 6 h
Oral		
LD50	Rat	1515 mg/kg OECD 401
MINERAL OIL (CAS 8042-47-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg OECD 402

Components	Species	Test Results
Inhalation		
Aerosol		
LC50	Rat	> 5 mg/L air, 4 h OECD 403
Oral		
LD50	Rat	> 5000 mg/kg OECD 401
STEARETH-20 (CAS 9005-00-9)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg bw OECD 402
Oral		
LD50	Rat	2100 mg/kg bw

Skin corrosion/irritation Causes severe skin burns and eye damage.

Irritation Corrosion - Skin

STEARETH-20	Draize Result: Not Irritating Species: Rabbit
ETHANOLAMINE	OECD 404 Result: Corrosive Species: Rabbit
AMMONIUM HYDROXIDE	OECD 404 Result: Corrosive Species: Rat
MINERAL OIL	OECD 404 Result: Not Irritating Species: Rabbit

Serious eye damage/eye irritation Causes serious eye damage.

Irritation Corrosion - Eye

STEARETH-20	Draize Result: Not Irritating Species: Rabbit
ETHANOLAMINE	OECD 405 Result: Corrosive Species: Rabbit
MINERAL OIL	OECD 405 Result: Not Irritating Species: Rabbit
AMMONIUM HYDROXIDE	Result: Corrosive

Respiratory or skin sensitization

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization

MINERAL OIL	OECD 406 Result: Not Sensitizing Species: Guinea pig
STEARETH-20	Result: Not Sensitizing
ETHANOLAMINE	Result: Not Sensitizing Species: Guinea pig
AMMONIUM HYDROXIDE	Result: Not Sensitzing Species: Guinea pig

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Mutagenicity

ETHANOLAMINE	Result: In vitro and in vivo tests did show mutagenic effects
AMMONIUM HYDROXIDE	Result: In vitro tests did not show mutagenic effects
MINERAL OIL	Result: In vitro tests did not show mutagenic effects

Carcinogenicity Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

MINERAL OIL (CAS 8042-47-5) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Developmental effects

MINERAL OIL
> 5000 mg/kg bw/d OECD 414, No effects on development
Result: NOAEL
Species: Rat

ETHANOLAMINE
>= 450 mg/kg bw/d OECD 414
Result: NOAEL
Species: Rat

Reproductivity

MINERAL OIL
>= 2000 mg/kg bw/d OECD 415, No effects on fertility
Result: NOAEL
Species: Rat

ETHANOLAMINE
300 mg/kg bw/d OECD 416
Result: NOAEL
Species: Rat

Specific target organ toxicity - single exposure May cause respiratory irritation.

AMMONIUM HYDROXIDE Result: Highly Irritating

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

MINERAL OIL
> 2000 mg/kg bw/d OECD 411, Dermal
Result: NOAEL
Species: Rat
Test Duration: 90 d
> 50 mg/m3 air OECD 412, Inhalation
Result: NOAEC
Species: Rat
Test Duration: 28 d
>= 1200 mg/kg bw/d OECD 453, Oral
Result: NOAEL
Species: Rat
Test Duration: 2 years

ETHANOLAMINE
150 mg/m3 air OECD 412, Inhalation
Result: NOAEC
Species: Rat
Test Duration: 28 d
300 mg/kg bw/d OECD 416, Oral
Result: NOAEL
Species: Rat

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Chronic effects May be harmful if absorbed through skin.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

Further information The reference to any animal testing for individual constituents mentioned in this document is based on public, third-party data.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
AMMONIUM HYDROXIDE (CAS 1336-21-6)			
Aquatic			
Acute			
Algae	EC50	Chlorella vulgaris	2700 mg/l, 18 d

Components		Species	Test Results
Crustacea	EC50	Daphnia magna	101 mg/l, 48 h ASTM E729-80
Fish	LC50	Oncorhynchus mykiss	0.89 mg/l, 96 h
Chronic			
Crustacea	NOEC	Daphnia magna	0.79 mg/l, 21 d
Fish	NOEC	Oncorhynchus mykiss	1.2 mg/l, 61 d OECD 210
ETHANOLAMINE (CAS 141-43-5)			
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	2.8 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	65 mg/l, 48 h EU C.2
Fish	LC50	Cyprinus carpio	349 mg/l, 96 h EU C.1
Other	EC10	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 30 min OECD 209
Chronic			
Crustacea	NOEC	Daphnia magna	0.85 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes	1.24 mg/l, 41 d OECD 210
MINERAL OIL (CAS 8042-47-5)			
Aquatic			
Acute			
Algae	NOEL	Pseudokirchneriella subcapitata	> 100 mg/l, 72 h OECD 201
Crustacea	EL50	Daphnia magna	> 100 mg/l, 48 h OECD 202
Fish	LL50	Oncorhynchus mykiss	> 100 mg/l, 96 h OECD 203
Chronic			
Crustacea	NOEC	Daphnia magna	10 mg/l, 21 d OECD 211

Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

ETHANOLAMINE	> 90 % OECD 301 A Result: Readily Biodegradable Test Duration: 21 d
MINERAL OIL	31 % OECD 301 F Result: Not Readily Biodegradable
STEARETH-20	83.6 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

ETHANOLAMINE	-2.3 OECD 107

Bioaccumulation

ETHANOLAMINE	Result: Bioaccumulation is unlikely.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

FINISHED GOODS

UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE), Limited Quantity
Class	8
Packing group	II
Transport hazard class(es)	
Label(s)	Limited Quantity
Packaging exceptions	154
LTD QTY Net Inner Capacity	1.0 L

BULK

UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE)
Class	8
Packing group	II
Transport hazard class(es)	
Label(s)	8
Special provisions	B2, IB2, T11, TP2, TP27
Packaging non bulk	202

IATA

FINISHED GOODS

UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE)
Class	8
Packing group	II
Transport hazard class(es)	
Label(s)	Class 8, Limited Quantity
ERG Number	8L
LTD QTY Net Inner Capacity	0.1 L

BULK

UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE)
Class	8
Packing group	II
ERG Number	8L

IMDG

FINISHED GOODS

UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE), Limited Quantity
Class	8
Packing group	II
Environmental Hazards	
Marine pollutant	No.
Transport hazard class(es)	
Label(s)	Limited Quantity
EmS	F-A, S-B
LTD QTY Net Inner Capacity	1.0 L

BULK

UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE)
Class	8
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

AMMONIUM HYDROXIDE (CAS 1336-21-6) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No (Exempt)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
AMMONIUM HYDROXIDE	1336-21-6	< 5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

16. Other information, including date of preparation or last revision

Issue date 04-01-2021

Version # 01

NFPA ratings Health: 3
Flammability: 1
Instability: 0

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.