

SAFETY DATA SHEET

ISSUANCE DATE: May 1, 2015

SDS # 15-169

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: Bleaching Oils Containing Ethanolamine

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

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

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: DANGER

Symbol	Classification	Hazard Statement	Prevention Statements
	Skin Corrosion Category 1C	Causes severe skin burns and eye damage	<ul style="list-style-type: none"> Wash hands, face 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).
	Serious Eye Damage Category 1	Causes serious eye damage	

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. Over-exposure may cause respiratory irritation.

Hazards Not Otherwise Classified: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Only hazardous constituents associated with the product are listed below

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Benzyl Alcohol	100-51-6	≤ 4.0%
Ethanolamine	141-43-5	≤ 6.0%
Deceth-3/Deceth-5	26183-52-8	≤ 51.0%

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 for at least 20 minutes or 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: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. **If skin irritation persists:** Get medical attention.

IF INHALED: Remove person to fresh air and keep in a position comfortable for breathing. Immediately call a Poison Control Center or doctor if person feels unwell.

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious individual. Immediately call a Poison Control Center or doctor.

SYMPTOMS/EFFECTS: Causes severe skin burns. Causes serious eye damage. Ingestion may produce burns and/or ulceration. Possible respiratory 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. 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 noted.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Notes for non-emergency personnel:

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

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

PERSONAL PROTECTIVE EQUIPMENT: Nitrile or vinyl gloves, safety glasses/goggles 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 organic vapor/acid gas cartridges. See also section 8 of this document.

Notes for those trained to participate in an emergency:

ACCIDENTAL RELEASE MEASURES: Dike and contain any free liquid then absorb on vermiculite or spill pillows/pads. Place spent absorbents in appropriate sturdy containers 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 chemicals. Employees should be advised to wear appropriate protective equipment in the manufacturing environment. See section 8 of this document for protective equipment selection. Avoid contact with eyes. 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. This material should be stored locked up in an area where production inventory may be controlled by authorized personnel. Store on spill pallets or in other locations 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: Oxidizing agents and nitric acid. 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
Ethanolamine (141-43-5)	OSHA PEL	3	6	--	--
	ACGIH TLV	3	7.5	6	15
	NIOSH REL	3	8	6	15

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 corrosive 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, 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 such may be considered. Ensure that the respirator meets current local occupational health and safety standards. Organic vapor/acid gas cartridges should be utilized with filtering respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear to amber viscous liquid	
ODOR:	Amine-like odor	
ODOR THRESHOLD:	Not Available	
pH:	11.0 – 11.7	
MELTING/FREEZING POINT:	F: Not Available C: Not Available	
BOILING POINT:	F: Not Available C: Not Available	
FLASH POINT:	F: >200 C: >93.4	METHOD USED: Not Available
EVAPORATION RATE:	Not Available	
FLAMMABILITY:	Not Applicable to Liquids	
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: None known.

INCOMPATIBILITY (MATERIAL TO AVOID): Oxidizing agents and nitric acid.

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS:

SKIN CORROSION/IRRITATION: Causes severe skin burns

SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye damage

RESPIRATORY/SKIN SENSITIZATION: None expected

INGESTION: Harmful if swallowed. May produce burns and/or ulceration.

INHALATION: Overexposure may cause respiratory irritation

ROUTES OF EXPOSURE: Eyes, skin, ingestion

SYMPTOMS: Causes severe skin burns. Causes serious eye damage. Ingestion may produce burns and/or ulceration. Possible respiratory irritation if over-exposed.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting dermatitis of the skin may be exacerbated by contact with this product.

ACUTE TOXICOLOGY DATA FOR COMPONENTS

Material	Route	Species	Test Results
Benzyl Alcohol	Oral LD ₅₀	Rat	1,620 mg/kg bw
Benzyl Alcohol	Dermal LD ₅₀	Rat (EPA OTS 798.1100)	2,000 mg/kg bw
Benzyl Alcohol	Inh. LC ₅₀ (4h)	Rat (OECD 403)	>4,178 mg/m ³ air
Ethanolamine	Oral LD ₅₀	Rat (OECD 401 eq)	1,510 mg/kg bw
Ethanolamine	Dermal LD ₅₀	Rat (OECD 402 eq)	2,504 mg/kg bw
Ethanolamine	Inh. LC ₅₀ (6hr)	Rat	>1,300 mg/m ³ air
Deceth-3/Deceth-5 (analogy)	Oral LD ₅₀	Rat	>2,000 mg/kg bw
Deceth-3/Deceth-5 (analogy)	Dermal LD ₅₀	Rat	>2,000 mg/kg bw

Skin Corrosion/Irritation:

Benzyl Alcohol: Not Irritating (Rabbit, OECD 404)

Ethanolamine: Corrosive (Rabbit, OECD 404 eq.)

Deceth-3/Deceth-5: Slightly Irritating (analogy)

Serious Eye Damage/Irritation:

Benzyl Alcohol: Irritating (Rabbit, OECD 405)
Ethanolamine: Corrosive (Rabbit, OECD 405)
Deceth-3/Deceth-5: Corrosive

Respiratory Irritation:

No Data

Skin Sensitization:

Benzyl Alcohol: Varied results. Data lacks evidence of sensitization in occupational exposure.
Ethanolamine: Not sensitizing (Guinea Pig)
Deceth-3/Deceth-5: Not Sensitizing (Guinea Pig) (analogy)

CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:

NOAEL (Benzyl Alcohol, oral): 400 mg/kg bw/day (Rat, OECD 451 eq.)
 NOAEC (Benzyl Alcohol, inh.): 1,072 mg/m³ air (Rat, OECD 412)
 NOAEL (Ethanolamine, oral): 300 mg/kg bw/day (Rat, OECD 416)
 NOAEL (Deceth-3/Deceth-5 (analogy), oral): 80-400 mg/kg/day (Rat) (OECD 408)
 NOAEL (Deceth-3/Deceth-5 (analogy), dermal): 80 mg/kg/day (Rat) (OECD 411)

CARCINOGENICITY:

Component Name (CAS-No.)	OSHA	ACGIH	NTP	IARC
No carcinogenic constituents	--	--	--	--

MUTAGENICITY:

Benzyl Alcohol: *In vitro* (Ames Test) have produced negative results as have a variety of *in vivo* tests.
Ethanolamine: A variety of *in vitro* and *in vivo* tests have produced negative results.
Deceth-3/Deceth-5: A variety of *in vitro* tests have produced negative results. (analogy)

REPRODUCTIVE TOXICITY:

Benzyl Alcohol: NOAEL: 800 mg/kg bw/day (Rat) – No Reproductive Effects
Ethanolamine: NOAEL: 300 mg/kg bw/day (Rat, OECD 416)
Deceth-3/Deceth-5: NOAEL: >250 mg/kg (Rat) (OECD 416) (analogy)

DEVELOPMENTAL TOXICITY/TERATOGENICITY:

Benzyl Alcohol: NOAEL: 550 mg/kg bw/day (Mouse) – No Developmental Effects
Ethanolamine: NOAEL: 450 mg/kg bw/day (Rat, OECD 414)
Deceth-3/Deceth-5: NOAEL: >250 mg/kg (Rat) (OECD 416) (analogy)

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
Benzyl Alcohol	LC ₅₀ (EPA OPP 72-1)	460 mg/L	Pimephales promelas	96 h
Ethanolamine	LC ₅₀ (ASTM D1345-70)	170 mg/L	Carassius auratus	96 h
Deceth-3/Deceth-5	LC ₅₀	11.5 mg/L	Oncorhynchus mykiss	96 h

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Benzyl Alcohol	EC ₅₀ (OECD 202)	203 mg/L	Daphnia Magna	48 h
Ethanolamine	EC ₅₀ (84/449/EEC C.2)	65 mg/L	Daphnia Magna	48 h
Deceth-3/Deceth-5	EC ₅₀	5.1 mg/L	Daphnia Magna	48 h

TOXICITY TO AQUATIC PLANTS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Benzyl Alcohol	EC ₅₀ (OECD 201)	770 mg/L	Pseudokirchneriella subcapitata	72 h
Ethanolamine	EL ₅₀ (92/69/EEC C.3)	15 mg/L	Green Algae	72 h

TOXICITY TO MICROORGANISMS

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Benzyl Alcohol	IC ₅₀ (ISO 8192 eq.)	390 mg/L	Nitrosomonas	24 h
Ethanolamine	EC ₁₀ (OECD 209)	> 1,000 mg/L	Activated Sludge	30 min

PERSISTENCY AND DEGRADABILITY:

Benzyl Alcohol: Readily Biodegradable – OECD 301 A – 95-97% (21d)
Ethanolamine: Readily Biodegradable – OECD 301 A – >90% (21 d)
Deceth-3/Deceth-5: Readily Biodegradable – OECD 301

BIOACCUMULATIVE POTENTIAL:

Benzyl Alcohol: log Pow: 1.05; BCF: 1.37 (Calculated) – Not expected to bioaccumulate
Ethanolamine: log Pow: -1.91 @ 25°C (OECD 107) – Not expected to bioaccumulate
Deceth-3/Deceth-5: Not expected to bioaccumulate (analogy)

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 when disposing bulk quantities. No 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 APPLICABLE

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 2491
- Proper Shipping Name:** Ethanolamine solutions
- Technical Name:** N/A
- Hazard Class:** 8
- Packing Group:** III
- Label Statements:** Exempt – Limited Quantity Marking Only

- OTHER THAN CONSUMER PACKAGING:**

UN ID Number: UN 2491
 Proper Shipping Name: Ethanolamine solutions
 Technical Name: N/A
 Hazard Class: 8
 Packing Group: III
 Label Statements: Corrosive (Class 8)

Transport Via Water

- IN CONSUMER PACKAGING:** Limited Quantity (≤ 5 L)
 UN ID Number: UN 2491
 Proper Shipping Name: Ethanolamine solutions
 Technical Name: N/D
 Hazard Class: 8
 Packing Group: III
 Label Statements: Exempt – Limited Quantity Marking Only

- OTHER THAN CONSUMER PACKAGING:**

UN ID Number: UN 2491
 Proper Shipping Name: Ethanolamine solutions
 Technical Name: N/A
 Hazard Class: 8
 Packing Group: III
 Label Statements: Corrosive (Class 8)

Transport Via Air (Domestic/International)

- IN CONSUMER PACKAGING:** Limited Quantity (≤ 0.5 L) (*Not eligible for ID 8000, Consumer Commodity*)
 UN ID Number: UN 2491
 Proper Shipping Name: Ethanolamine solutions
 Technical Name: N/A
 Hazard Class: 8
 Packing Group: III
 Label Statements: Limited Quantity Marking & Corrosive (Class 8)
- OTHER THAN CONSUMER PACKAGING:**
 UN ID Number: UN 2491
 Proper Shipping Name: Ethanolamine solutions
 Technical Name: N/A
 Hazard Class: 8
 Packing Group: III
 Label Statements: Corrosive (Class 8)

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

SECTION 15: REGULATORY INFORMATION

National Fire Protection Association Codes: Health: 3 Fire: 0 Reactivity: 0 Other: None

Workplace Hazardous Materials Identification System: 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)