L'ORÉAL USA

SAFETY DATA SHEET

SDS #80-26-001-0

ISSUANCE DATE: January 4, 2016

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: Redken Shades EQ Processing Solution (P0695200)

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

Restrictions on use: For external use only. Use only as directed. Avoid direct contact with eyes.

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: DANGER

Symbol	Classification	Hazard Statement	Prevention Statements
	Skin Corrosion Category 1C	Causes severe skin burns and eye damage	• Do not breathe dust or mists. • Wash hands thoroughly after handling. • Wear nitrile or vinyl protective gloves.
	Eye Damage Category 1	Causes serious eye damage	• Wear eye protection appropriate for the manufacturing operation being performed (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.

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	2.00 %
Phosphoric Acid	7664-38-2	0.32 %

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately 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. Consult a physician or Poison Control Center immediately.

SYMPTOMS/EFFECTS: Causes severe skin burns and eye damage.

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

SECTION 5: FIRE-FIGHTING MEASURES

Notes for Non-Emergency Personnel:

EXTINGUISHING MEDIA: In case of fire: Use carbon dioxide, dry chemical, foam and/or water spray to extinguish. Selection of a fire extinguisher should also be appropriate to address the location of the fire and equipment involved. Please review the tools available at your location to ensure proper availability of equipment.

Notes for those trained to participate in an emergency:

SPECIAL FIRE FIGHTING PROCEDURES: Follow National Fire Protection Association Guidelines or local guidelines appropriate for emergency response.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None required.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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

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

Notes for those trained to participate in an emergency:

ACCIDENTAL RELEASE MEASURES: Dike and contain the free liquid and absorb on vermiculite or spill pillows/pads. Solidified materials should be placed in transport approved 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 hazardous 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 locked up. 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
Hydrogen Peroxide (7722-84-1)	OSHA PEL	1	1.4	--	--
	ACGIH TLV	1	1.4	--	--
	NIOSH REL	1	1.4	--	--
Phosphoric Acid (7664-38-2)	OSHA PEL	--	1	--	--
	ACGIH TLV	--	1	--	3
	NIOSH REL	--	1	--	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): Nitrile or vinyl gloves should be utilized during 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:	Clear Liquid		
ODOR:	Not Available		
ODOR THRESHOLD:	Not Available		
pH:	1.8		
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 Available **(Butyl acetate = 1)**		
FLAMMABILITY:	Not Applicable to Liquids		
FLAMMABLE LIMITS IN AIR:	Not Applicable		
VAPOR PRESSURE (mmHg):	@ F: Not Available @ C: Not Available		
VAPOR DENSITY (AIR = 1):	@ F: Not Available @ C: Not Available		
RELATIVE DENSITY (H2O = 1):	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, 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
INHALATION: None expected

ROUTES OF EXPOSURE: Inhalation, eyes, skin, ingestion

SYMPTOMS: Causes severe skin burns and eye damage.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

ACUTE TOXICOLOGY DATA FOR COMPONENTS

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

Material	Route	Species	Test Results
Hydrogen Peroxide (10%)	Oral LD_{50} (OECD 401 eq)	Rat	>5,000 mg/kg
Hydrogen Peroxide (70%)	Dermal (LD_{50}) - US EPA	Rabbit	>2,000 mg/kg bw
Hydrogen Peroxide (50%)	Inhalation (LC_{50}) OECD 403 eq	Rat	>0.17 mg/l air (4h)
Phosphoric Acid	Oral LD_{50} (OECD 403 eq)	Rat	2600 mg/kg bw
Phosphoric Acid	Inhalation LC_{50} (OECD 403 eq)	Rat	3846 mg/m^3

Skin Corrosion/Irritation:
Hydrogen Peroxide: C < 35% - Not Irritating; 35% ≤ C ≤ 50% - Irritating; C > 50% - Corrosive - (Rat) OECD 404
Phosphoric Acid: 10% ≤ C ≤ 25% - Irritating; C ≥ 25% Corrosive – (Rat)

Serious Eye Damage/Irritation:
Hydrogen Peroxide: C < 5% - Not Irritating; 5% ≤ C ≤ 8% - Irritating; C > 8% - Corrosive - (Rat) OECD 405 eq.
Phosphoric Acid: C > 70% - Corrosive (Rabbit)

Respiratory Irritation:
Hydrogen Peroxide: Irritating (>35%)

Skin Sensitization:
Hydrogen Peroxide: Not Sensitizing (Guniea Pig) - Magnusson-Kligman

CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:
NOAEL (Hydrogen Peroxide, oral): 100ppm (26mg/kg bw/d) (90d) (Oral) (Mouse) OECD 408 (35%);
NOAEL (Hydrogen Peroxide, inhalation): 2.9 mg/m3 air (28d) (Inh) (Rat) OECD 412 (50%)
NOAEL (Phosphoric Acid, oral): 250 mg/kg (Rat) OECD 422

CARCINOGENICITY:

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

Notes:
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: Positive - In Vitro; Negative - In Vivo
Phosphoric Acid: Negative - In Vitro (OECD 476)

REPRODUCTIVE TOXICITY:
Phosphoric Acid: *NOAEL:* ≥ 500 mg/kg bw/day (Rat, OECD 422)

DEVELOPMENTAL TOXICITY/TERATOGENICITY:
Phosphoric Acid: *NOAEL:* ≥ 500 mg/kg bw/day (Rat, OECD 422)

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)	16.4 mg/L	Pimephales promelas	96 h
Phosphoric Acid	LC_{50} (OECD 203)	75.1 mg/L	Oryzias latipes	96 h

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
Hydrogen Peroxide	EC_{50} (US EPA)	2.4 mg/L	Daphnia pulex	48 h
Phosphoric Acid	EC_{50} (OECD 202)	>100 mg/L	Daphnia magna	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
Phosphoric Acid	EC_{50} (OECD 201)	> 100 mg/L	Desmodesmus subspicatus	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; <99% (30min) OECD 209

BIOACCUMULATIVE POTENTIAL:
Hydrogen Peroxide: No bioaccumulation expected; log Kow (est): -1.57

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: These products are considered corrosive (D002) RCRA hazardous waste when intended for disposal. Neutralization and/or controlled incineration at a regulated waste facility are the recommended technologies for treatment and disposal. This material must not be disposed through sewage.

RCRA HAZARD CLASS: D002

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 3264
  Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
  Technical Name: Phosphoric Acid
  Hazard Class: 8
  Packing Group: III
  Label Statements: Exempt – Limited Quantity Marking Only

- **OTHER THAN CONSUMER PACKAGING:**
  UN ID Number: UN 3264
  Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
  Technical Name: Phosphoric Acid
  Hazard Class: 8
  Packing Group: III
  Label Statements: Corrosive (Class 8)

Transport Via Water

- **IN CONSUMER PACKAGING:** Limited Quantity/Consumer Commodity (≤ 5 L)
  UN ID Number: UN 3264
  Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
  Technical Name: Phosphoric Acid
  Hazard Class: 8
  Packing Group: III
  Label Statements: Exempt – Limited Quantity Marking Only

- **OTHER THAN CONSUMER PACKAGING:**
  UN ID Number: UN 3264
  Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
  Technical Name: Phosphoric Acid
  Hazard Class: 8
  Packing Group: III
  Label Statements: Corrosive (Class 8)

Transport Via Air (Domestic/International)

- **IN CONSUMER PACKAGING:** Limited Quantity/Consumer Commodity (≤ 0.5 L)
  UN ID Number: UN 3264
  Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
  Technical Name: Phosphoric Acid
  Hazard Class: 8
  Packing Group: III
  Label Statements: Exempt – Limited Quantity Marking Only

- **OTHER THAN CONSUMER PACKAGING:**
  UN ID Number: UN 3264
  Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s.
  Technical Name: Phosphoric Acid
  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 E; Corrosive Material

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

SECTION 16: OTHER INFORMATION

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

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