

**1. Identification**

**Product identifier** L'OREAL PROFESSIONNEL SERIE EXPERT POWER MIX BASE  
**Other means of identification**  
**SDS number** 30-12-004-0  
**Recommended use** Personal care product used on the hair 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** Flammable liquids Category 2  
**Health hazards** Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2A  
**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Danger  
**Hazard statement** Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation.

**Precautionary statement**

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.

**Response** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

<b>Storage</b>	Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	7.35% of the mixture consists of component(s) of unknown acute oral toxicity. 1.63% of the mixture consists of component(s) of unknown acute dermal toxicity. 8.92% of the mixture consists of component(s) of unknown acute inhalation toxicity.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
ALCOHOL DENAT.		64-17-5	50.08
CETRIMONIUM CHLORIDE		112-02-7	1.85

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Skin irritation. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal 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.
<b>General information</b>	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Highly flammable liquid and vapor.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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**Methods and materials for containment and cleaning up**

Use water spray to reduce vapors or divert vapor cloud drift. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions****7. Handling and storage****Precautions for safe handling**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. 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
ALCOHOL DENAT. (CAS 64-17-5)	PEL	1900 mg/m <sup>3</sup>
		1000 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
ALCOHOL DENAT. (CAS 64-17-5)	STEL	1000 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
ALCOHOL DENAT. (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup>
		1000 ppm

**Biological limit values**

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

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) 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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Face shield is recommended. Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves.

**Other**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	When using do not smoke. 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

<b>Physical state</b>	Liquid.
<b>Color</b>	Transparent
<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	Not available.
<b>pH</b>	4 - 5
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	> 95 °F (> 35 °C)
<b>Flash point</b>	69.8 °F (21.0 °C) Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	2.6 % estimated
<b>Flammability limit - upper (%)</b>	19 % estimated
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	0.867 - 0.877
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics**

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Skin irritation. May cause redness and pain.

**Information on toxicological effects**

**Acute toxicity** Not known.

Product	Species	Test Results
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L'OREAL PROFESSIONNEL SERIE EXPERT POWER MIX BASE

**Acute**

**Oral**

ATEmix 4491.7576 mg/kg

Components	Species	Test Results
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ALCOHOL DENAT. (CAS 64-17-5)

**Acute**

**Dermal**

LD50 Rabbit > 20000 mg/kg bw

**Inhalation**

*Vapor*

LC50 Rat 124.7 mg/L air, 4 h OECD 403

**Oral**

LD50 Rat 10470 mg/kg bw OECD 401

CETRIMONIUM CHLORIDE (CAS 112-02-7)

**Acute**

**Dermal**

LD50 Rabbit 429 mg/kg, 24 Hours

**Oral**

LD50 Rat > 250 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes skin irritation.

**Irritation Corrosion - Skin**

ALCOHOL DENAT.

OECD 404  
Result: Not Irritating  
Species: Rabbit

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Irritation Corrosion - Eye**

ALCOHOL DENAT.

OECD 405  
Result: Irritating  
Species: Rabbit

**Respiratory or skin sensitization**

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Skin sensitization**

ALCOHOL DENAT.

OECD 406  
Result: Not Sensitizing  
Species: Guinea pig

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Mutagenicity**

ALCOHOL DENAT.

Result: In vitro and in vivo tests did not show mutagenic effects.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.		
<b>Developmental effects</b>			
ALCOHOL DENAT.		> 20000 ppm OECD 414, No effects on development	Result: NOAEL
			Species: Rat
<b>Reproductivity</b>			
ALCOHOL DENAT.		20700 mg/kg bw/d OECD 416, No effects on fertility	Result: NOAEL
			Species: Rat
<b>Specific target organ toxicity - single exposure</b>	Not classified.		
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.		
ALCOHOL DENAT.		1730 mg/kg bw/d OECD 408, Oral	Result: NOAEL
			Species: Rat
<b>Aspiration hazard</b>	Not an aspiration hazard.		
<b>Chronic effects</b>	Prolonged inhalation may be harmful.		

**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
ALCOHOL DENAT. (CAS 64-17-5)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	22200 mg/l, 96 h
Crustacea	EC50	Ceriodaphnia dubia	5012 mg/l, 48 h
Fish	LC50	Pimephales promelas	15300 mg/l, 96 h
Other	IC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h
CETRIMONIUM CHLORIDE (CAS 112-02-7)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	0.08 mg/l, 72 hours OECD 201
Crustacea	EC50	Daphnia magna	0.09 mg/l, 48 hours OECD 202
Fish	LC50	Danio rerio	0.19 - 0.29 mg/l, 96 hours OECD 203
Other	EC50	Pseudomonas putida	0.96 mg/l, 16 hours DIN 38412; Pt. 8
<i>Chronic</i>			
Algae	NOEC	Pseudokirchneriella subcapitata	0.04 mg/l, 72 hours OECD 201
Crustacea	NOEC	Daphnia magna	0.0068 mg/l, 21 day OECD 211
Fish	NOEC	Pimephales promelas	0.032 mg/l, 28 day US FIFRA 72-4(a)

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability****Biodegradability****Percent degradation (Aerobic biodegradation)**

ALCOHOL DENAT.	84 %
	Result: Readily Biodegradable
	Test Duration: 20 d

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

ALCOHOL DENAT.	-0.31
CETRIMONIUM CHLORIDE	3.23

**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.

**Hazardous waste code** This product is ignitable (D001) RCRA hazardous wastes when intended for disposal.

**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**

Materials associated with this document meet the criteria for US Department of Transportation exemption found at 49 CFR 173.150(g).

Packages containing limited quantities of retail products in volumes in accordance with the tables listed below maybe offered under the conditions of the exemption.

**US Domestic Transportation**  
Per 49 CFR 173.150(g) exemptions:

>70% Ethyl Alcohol (v/v) (w/w)				
	Inner Packaging	Net Contents	Gross Weight	Marking
Liquids	8 fl. oz.	192 fl. oz.	65 lbs.	None
≤70% Ethyl Alcohol (v/v) (w/w)				
Liquids (glass)	8 fl. oz.	192 fl. oz.	65 lbs.	None
	16 fl. oz.	192 fl. oz.	65 lbs.	Contains Ethyl Alcohol
Liquids (non-glass)	16 fl. oz.	192 fl. oz.	65 lbs.	None
	1 gallon	192 fl. oz.	65 lbs.	Contains Ethyl Alcohol
General Conditions				
Inner packagings must be secured and cushioned within the outer package to prevent breakage, leakage and movement.				

**DOT****FINISHED GOODS**

**UN number** UN1266  
**UN proper shipping name** Perfumery products with flammable solvents, Limited Quantity  
**Class** 3  
**Packing group** II  
**Transport hazard class(es)**  
**Label(s)** Limited Quantity  
**Packaging exceptions** 150  
**LTD QTY Net Inner Capacity** 1.0 L

**BULK**

**UN number** UN1266  
**UN proper shipping name** Perfumery products with flammable solvents  
**Class** 3  
**Packing group** II  
**Transport hazard class(es)**  
**Label(s)** 3  
**Special provisions** 149, IB2, T4, TP1, TP8  
**Packaging non bulk** 202

**IATA****FINISHED GOODS**

**UN number** ID8000  
**UN proper shipping name** Consumer commodity  
**Class** 9  
**Packing group** Not applicable.  
**Transport hazard class(es)**  
**Label(s)** Class 9, Limited Quantity

**ERG Number** 9L  
**Special Provisions** A112  
**LTD QTY Net Inner Capacity** 0.5 L  
**Packing instruction (LQ)** Y963

**BULK**

**UN number** UN1266  
**UN proper shipping name** Perfumery products with flammable solvents  
**Class** 3  
**Packing group** II  
**ERG Number** 3L  
**Special Provisions** A3,A72

Read safety instructions, SDS and emergency procedures before handling.

**IMDG**

**FINISHED GOODS**

**UN number** UN1266  
**UN proper shipping name** PERFUMERY PRODUCTS with flammable solvents  
**Class** 3  
**Packing group** II  
**Environmental Hazards**  
**Marine pollutant** No.  
**Transport hazard class(es)**  
**Label(s)** Limited Quantity  
**EmS** F-E, S-D  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**LTD QTY Net Inner Capacity** 5.0 L

**BULK**

**UN number** UN1266  
**UN proper shipping name** PERFUMERY PRODUCTS with flammable solvents  
**Class** 3  
**Packing group** II  
**Environmental hazards**  
**Marine pollutant** No.  
**EmS** F-E, S-D

Read safety instructions, SDS and emergency procedures before handling.

**15. Regulatory information**

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

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

ALCOHOL DENAT. (CAS 64-17-5) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Not regulated.



**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.**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

ALCOHOL DENAT. (CAS 64-17-5)

Low priority

**16. Other information, including date of preparation or last revision****Issue date** 12-01-2017**Version #** 01**NFPA ratings** Health: 2  
Flammability: 3  
Instability: 0**Disclaimer** LOrealProfessionnel cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.