# L'ORÉAL PROFESSIONNEL PARIS

# SAFETY DATA SHEET

### 1. Identification

Product identifier L'ORÉAL PROFESSIONNEL SERIOXYL FULLER HAIR – BLONDE

Other means of identification

**SDS number** 21-93-0000047

**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 Flammable aerosols Category 1

Gases under pressure Liquefied gas Serious eye damage/eye irritation Category 2A

OSHA defined hazards Not classified.

Label elements

**Health hazards** 



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes

serious eye irritation.

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Wash thoroughly after handling. Wear eye protection/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding

50°C/122°F.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

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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	%
BUTANE		106-97-8	40
DIMETHYL ETHER		115-10-6	40
ETHANOL		64-17-5	10.34
CALCIUM CARBONATE		1317-65-3	3.05
TITANIUM DIOXIDE		13463-67-7	1.13

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

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or

poison control center. Rinse mouth.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

vision.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

**General information** 

media

Ingestion

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters Fire fighting

equipment/instructions

Specific methods

General fire hazards

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when

exposed to heat or flame.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. 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

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. 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

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. 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.

Components	Contaminants (29 CFR 1910.1000) Type	Value	Form
CALCIUM CARBONATE (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
ETHANOL (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
BUTANE (CAS 106-97-8)	STEL	1000 ppm	
ETHANOL (CAS 64-17-5)	STEL	1000 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	Form
BUTANE (CAS 106-97-8)	TWA	1900 mg/m3	
,		800 ppm	
CALCIUM CARBONATE	TWA	5 mg/m3	Respirable.
(CAS 1317-65-3)		-	•
		10 mg/m3	Total
ETHANOL (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

US. Workplace Environmental Exposure Level (WEEL) Guides

Value Components Type DIMETHYL ETHER (CAS TWA 1880 mg/m3

115-10-6) 1000 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

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.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an Respiratory protection

air-supplied respirator.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

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** 

**Physical state** Liquid. Aerosol. **Form** Color Light brown Characteristic. Odor Odor threshold Not available. Not applicable. Not available. Melting point/freezing point

Initial boiling point and boiling

range

> 95 °F (> 35 °C) (Liquid)

Flash point 66.2 °F (19.0 °C) Closed Cup (Liquid)

Not available. **Evaporation rate** Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Vapor pressure Not available. Vapor density Not available. Not available. Specific gravity

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Not available. Viscosity

Other information

**Density** 1.030 - 1.130 g/cm³ (Liquid)

**Explosive properties** Not explosive. **Heat of combustion (NFPA** 31.85 kJ/g

30B)

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 Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

No horzerdous decomposition products are known.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the

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physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

**BUTANE (CAS 106-97-8)** 

Acute Inhalation

Gas

LC50 Mouse 1237 mg/l, 2 Hours

DIMETHYL ETHER (CAS 115-10-6)

**Acute** 

Inhalation

Gas

LC50 Rat 164000 ppm, 4 h

ETHANOL (CAS 64-17-5)

Acute

**Dermal** 

LD50 Rabbit > 20000 mg/kg

Inhalation

Vapor

LC50 Rat 124.7 mg/l, 4 h OECD 403

Oral

LD50 Rat 10470 mg/kg OECD 401

TITANIUM DIOXIDE (CAS 13463-67-7)

**Acute** 

Inhalation

LC50 Rat > 6.82 mg/L air, 4 hours

Components Species Test Results

Oral

LD50 Rat > 25000 mg/kg

**Skin corrosion/irritation**No adverse effects due to skin contact are expected.

**Irritation Corrosion - Skin** 

ETHANOL OECD 404

Result: Not Irritating Species: Rabbit

BUTANE Result: Contact with liquid form may cause frostbite.

DIMETHYL ETHER Result: Contact with liquid form may cause frostbite.

Serious eye damage/eye

Causes serious eye irritation.

irritation

**Irritation Corrosion - Eye** 

ETHANOL OECD 405

Result: Irritating Species: Rabbit

BUTANE Result: Contact with liquid form may cause frostbite.

DIMETHYL ETHER Result: Contact with liquid form may cause frostbite.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

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

Skin sensitization

ETHANOL 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

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

effects.

DIMETHYL ETHER Result: In vitro and in vivo tests did not show mutagenic

effects.

ETHANOL 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

TITANIUM DIOXIDE (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

**Developmental effects** 

ETHANOL > 20000 ppm OECD 414, No effects on development

Result: NOAEL Species: Rat

BUTANE 19678 mg/m³ OECD 422

Result: NOAEC Species: Rat

DIMETHYL ETHER 40000 ppm OECD 414

Result: NOAEL Species: Rat

Reproductivity

DIMETHYL ETHER 2.5 % OECD 452, No effects on fertility

Result: NOAEL Species: Rat

ETHANOL 20700 mg/kg bw/d OECD 416, No effects on fertility

Result: NOAEL Species: Rat

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Reproductivity **BUTANE** 

7131 mg/m3 OECD 422 Result: NOAEC

Species: Rat

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

Not classified.

repeated exposure

**BUTANE** 

**ETHANOL** 1730 mg/kg bw/d OECD 408, Oral

Result: NOAEL Species: Rat

.47106 mg/m3 air OECD 452, Inhalation DIMETHYL ETHER

Result: NOAEC Species: Rat Test Duration: 2 yr 7214 mg/m3 OECD 422

Result: NOAEC Species: Rat Test Duration: 28 d

**Aspiration hazard** Not an aspiration hazard.

# 12. Ecological information

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

components		Species	Test Results
IMETHYL ETHER (C	AS 115-10-6)		
Aquatic			
Acute			
Algae	EC50	Green algae	154.917 mg/l, 96 h QSAR
Crustacea	EC50	Daphnia magna	> 4400 mg/l, 48 h
Fish	LC50	Poecilia reticulata	> 4100 mg/l, 96 h
Other	EC10	Pseudomonas putida	> 1600 mg/l
THANOL (CAS 64-17	7-5)		
Aquatic			
Acute			
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
Chronic			
Crustacea	NOEC	Daphnia magna	9.6 mg/l, 9 d
Fish	NOEC	Danio rerio	250 mg/l, 120 h OECD 212
TITANIUM DIOXIDE (	CAS 13463-67-7)		
Aquatic			
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
Acute			
Algae	EC50	Lemna minor	> 100 mg/l, 7 d OECD 221
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	> 1.1 mg/l, 14 d OECD 204
Other	EC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h OECD 209
Chronic			
Crustacea	NOEC	Daphnia magna	>= 5 mg/l, 21 d OECD 211

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SDS US

 Components
 Species
 Test Results

 Fish
 NOEC
 Danio rerio
 > 160 mg/l, 6 d OECD 210

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

### Persistence and degradability

# Biodegradability

Percent degradation (Aerobic biodegradation)

BUTANE 100 %

Result: Readily Biodegradable Test Duration: 385.5 Hours

DIMETHYL ETHER 5 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d

ETHANOL 84 %

Result: Readily Biodegradable

Test Duration: 20 d

### **Bioaccumulative potential**

Partition coefficient n-octanol / water (log Kow)

BUTANE 2.89
DIMETHYL ETHER 0.1
ETHANOL -0.31

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. Contents

under pressure. Do not puncture, incinerate or crush. 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. Do not re-use empty containers.

### 14. Transport information

**General information** 

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

#### DOT

### **FINISHED GOODS**

UN number UN1950

UN proper shipping name AEROSOLS, FLAMMABLE, Limited Quantity

Class 2.

Packing group Not applicable.

Transport hazard class(es)

Label(s) Limited Quantity

Packaging exceptions 30

**BULK** 

UN number UN1170

UN proper shipping name ETHANOL SOLUTION

Class 3 Packing group II Transport hazard class(es)

Label(s) 3

Special provisions 24, IB2, T4, TP1

Packaging non bulk 202

IATA

**FINISHED GOODS** 

UN number ID8000

UN proper shipping name CONSUMER COMMODITY

Class 9 - Class 9 Packing group Not applicable.

Transport hazard class(es)

Label(s) Class 9, Limited Quantity

ERG Number9LSpecial ProvisionsA112LTD QTY Net Inner Capacity0.5 LPacking instruction (LQ)Y963

**BULK** 

UN number UN1170

UN proper shipping name ETHANOL SOLUTION

Class 3
Packing group II
ERG Number 3L

Special Provisions A3,A58,A180

**IMDG** 

**FINISHED GOODS** 

UN number UN1950

UN proper shipping name AEROSOLS, FLAMMABLE, Limited Quantity

Class 2.1

Packing group Not applicable.

**Environmental Hazards** 

Marine pollutant No.

Transport hazard class(es)

Label(s) Limited Quantity
EmS F-D. S-U

**BULK** 

UN number UN1170

UN proper shipping name ETHANOL SOLUTION

Class 3 Packing group II

**Environmental hazards** 

Marine pollutant No. EmS F-E, S-D

# 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)** 

BUTANE (CAS 106-97-8)

DIMETHYL ETHER (CAS 115-10-6)

ETHANOL (CAS 64-17-5)

Listed.

Listed.

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 - Yes Reactivity Hazard - No

# SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

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)

**BUTANE (CAS 106-97-8)** 

DIMETHYL ETHER (CAS 115-10-6)

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

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

ETHANOL (CAS 64-17-5) Low priority

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

**Issue date** 05-15-2019

Version # 01

NFPA ratings Health: 2

Flammability: 4 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.

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