

# SAFETY DATA SHEET

## L'ORÉAL PROFESSIONNEL SERIE EXPERT ABSOLUT REPAIR MOLECULAR BIPHASE OIL

Version 1.1      Revision Date: 06/09/2025      SDS Number: 30-19-400000194017      Date of last issue: 12/18/2024  
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### SECTION 1. IDENTIFICATION

Product name : L'ORÉAL PROFESSIONNEL SERIE EXPERT ABSOLUT REPAIR MOLECULAR BIPHASE OIL

Formula Center Reference : 1258283 H

Other means of identification : No data available

#### Manufacturer or supplier's details

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

Telephone : 1-732-499-2745

E-mail address : CORPREGAFFAIRSMSDS@LOREAL.COM

#### Emergency telephone

National Poisons Control Center : CANUTEC : 1-613-996-6666 (Canutec (\*666 Cellular)) (This telephone number is available during office hours only.)

#### Recommended use of the chemical and restrictions on use

Recommended use : Personal care product used for cosmetic effect.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

Flammable liquids : Category 3

Aspiration hazard : Category 1

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.

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Precautionary Statements : P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.

### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P331 Do NOT induce vomiting.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
ISODODECANE	2,2,4,6,6-pentamethylheptane	13475-82-6	$\geq 30 - < 60$ *
DIMETHICONE	dodecamethylpentasiloxane	141-63-9	$\geq 10 - < 30$ *
GLYCERIN	glycerol	56-81-5	$\geq 5 - < 10$ *
CITRIC ACID	citric acid	77-92-9	$\geq 1 - < 3$ *

\* Actual concentration or concentration range is withheld as a trade secret

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### SECTION 4. FIRST AID MEASURES

- General advice : Symptoms of poisoning may appear several hours later.
- If inhaled : Move to fresh air.
- In case of skin contact : Get medical attention if irritation develops and persists.
- In case of eye contact : Rinse with water.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
Do NOT induce vomiting.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.
- Notes to physician : Treat symptomatically.
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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known.
- Further information : For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).  
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : For personal protection see section 8.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.
- Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.
- Materials to avoid : Do not store near acids.
- Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
GLYCERIN	56-81-5	TWA (Mist)	10 mg/m <sup>3</sup>	CA AB OEL
		TWA (Mist)	10 mg/m <sup>3</sup>	CA BC OEL
		TWA (Respirable mist)	3 mg/m <sup>3</sup>	CA BC OEL
		TWAEV (Mist)	10 mg/m <sup>3</sup>	CA QC OEL

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### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

    Remarks : Applicable for industrial settings only. Nitrile rubber

Eye protection : Applicable for industrial settings only.  
Safety glasses

Skin and body protection : Applicable for industrial settings only.  
Work uniform or laboratory coat.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Form : Bi-Phase

Color : light yellow, colorless

Odor : characteristic

pH : 3.8 - 4.4

Melting point/freezing point : No data available

Boiling point/boiling range : Not available

Flash point : 52.0 °C  
Method: ISO 3679

Fire Point : < 100 °C  
Method:ISO 2592

Flammability (liquids) : Sustains combustion

Upper explosion limit / Upper flammability limit : 3.8 %(V)  
(for a component of this mixture)

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Lower explosion limit / Lower flammability limit	:	0.5 %(V) (for a component of this mixture)
Vapor pressure	:	1 hPa (25 °C) (for a component of this mixture)
Relative vapor density	:	No data available
Relative density	:	0.807 - 0.813 (20 °C)
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	410 °C  (for a component of this mixture)
Decomposition temperature	:	Not applicable
Viscosity Viscosity, kinematic	:	No data available
Dust explosion class	:	Not applicable
Particle characteristics Particle size	:	Not applicable

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Vapors may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Not applicable
Hazardous decomposition products	:	No hazardous decomposition products are known.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Components:

##### ISODODECANE:

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat, male and female): 4.951 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit, male and female): 2,200 - 2,500 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

##### CITRIC ACID:

- Acute oral toxicity : LD50 (Mouse, male and female): 5,400 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Components:

##### ISODODECANE:

- Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

##### CITRIC ACID:

- Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

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### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

#### Components:

##### ISODODECANE:

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

##### CITRIC ACID:

Species : Rabbit  
Result : Eye irritation  
Method : OECD Test Guideline 405

### Respiratory or skin sensitization

#### Skin sensitization

Based on available data, the classification criteria are not met.

#### Respiratory sensitization

Based on available data, the classification criteria are not met.

#### Components:

##### ISODODECANE:

Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Components:

##### CITRIC ACID:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### Components:

##### CITRIC ACID:

Reproductive toxicity - : Weight of evidence does not support classification for



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NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : EC10 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l  
Exposure time: 60 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): > 10.2 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

### Ecotoxicology Assessment

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

### CITRIC ACID:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,535 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC10 (Scenedesmus quadricauda (Green algae)): 425 mg/l  
Exposure time: 192 h  
Method: OECD Test Guideline 201

### Persistence and degradability

#### Components:

#### ISODODECANE:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 71 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

#### CITRIC ACID:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 30 d  
Method: OECD Test Guideline 301D

### Bioaccumulative potential

#### Components:

#### ISODODECANE:

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Bioaccumulation : Bioconcentration factor (BCF): 315 - 1,021.68

Partition coefficient: n-octanol/water : log Pow: 5.94 - 6.16  
pH: 7

### **CITRIC ACID:**

Bioaccumulation : Bioconcentration factor (BCF): 3.20

Partition coefficient: n-octanol/water : log Pow: -1.6

### **Mobility in soil**

No data available

### **Other adverse effects**

### **Product:**

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

### **Global warming potential**

**Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)**

### **Components:**

#### **DIMETHICONE:**

20-year global warming potential: 0.439  
100-year global warming potential: 0.122  
500-year global warming potential: 0.035  
Atmospheric lifetime: 0.011 yr  
Radiative efficiency: 0.064 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Send to a licensed waste management company.

Contaminated packaging : Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### SECTION 14. TRANSPORT INFORMATION

#### Domestic regulation

##### TDG

UN number : UN 2286  
Proper shipping name : PENTAMETHYLHEPTANE SOLUTION  
  
Class : 3  
Packing group : III  
Labels : 3  
ERG Code : 128  
Marine pollutant : no

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 2286  
Proper shipping name : Pentamethylheptane solution  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

##### IMDG-Code

UN number : UN 2286  
Proper shipping name : PENTAMETHYLHEPTANE SOLUTION  
  
Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-D  
Marine pollutant : no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Special precautions for user

Remarks : Materials packaged as a finished good may be offered as ID8000, Consumer Commodity by IATA.  
Materials may be offered as a limited quantity when in containers of 5 liters or less, except for IATA.

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### SECTION 15. REGULATORY INFORMATION

**Canadian PBT Chemicals** : This product does not contain any components on the DSL that are classified as Persistent, Bioaccumulative and Toxic (PBT) under CEPA.

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### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWA EV	:	Time-weighted average exposure value

AICC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

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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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