

1. Identification

Product identifier L'ORÉAL PROFESSIONNEL SERIE EXPERT ABSOLUT REPAIR MOLECULAR POST-SHAMPOO

Other means of identification

SDS number 00-12-0001345

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 Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Take off contaminated clothing and wash it before reuse.

Storage Store away from incompatible materials.

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

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 | % |
|---------------|--------------------------|------------|----|
| GLYCERIN | | 56-81-5 | 15 |
| CITRIC ACID | | 5949-29-1 | 3 |

*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. |
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | Not available. |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | Alcohol resistant foam. Dry powder. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |

6. Accidental release measures

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Use water spray to reduce vapors or divert vapor cloud drift. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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. Never return spills to original containers for re-use. 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 | Avoid prolonged exposure. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Store in tightly closed container. 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.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|------------------------|------|----------|----------------------|
| GLYCERIN (CAS 56-81-5) | PEL | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |

US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components | Type | Value | Form |
|------------------------|------|----------|----------------------|
| GLYCERIN (CAS 56-81-5) | TWA | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |
| | | 15 mppcf | Respirable fraction. |

Biological limit values

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

Appropriate engineering controls

Good general ventilation 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

Eye/face protection Applicable for industrial settings only. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Applicable for industrial settings only. Wear appropriate chemical resistant gloves.

Other

Applicable for industrial settings only. Wear appropriate chemical resistant clothing.

Respiratory protection

Applicable for industrial settings only. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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.

Form Viscous Liquid

Color Yellow.

Odor Characteristic.

Odor threshold Not available.

pH 3.5 - 4.5

Melting point/freezing point Not available.

Initial boiling point and boiling range > 212 °F (> 100 °C)

Flash point > 199.4 °F (> 93.0 °C) Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

| | |
|--|----------------|
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Density | >= 0.98 g/cm³ |
| Explosive properties | Not explosive. |
| 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 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| 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 | No adverse effects due to eye contact are expected. |
| Ingestion | Expected to be a low ingestion hazard. |

Symptoms related to the physical, chemical and toxicological characteristics Not available.

Information on toxicological effects

Acute toxicity Not known.

| Product | Species | Test Results |
|--|---------|------------------------|
| L'ORÉAL PROFESSIONNEL SERIE EXPERT ABSOLUT REPAIR MOLECULAR POST-SHAMPOO | | |
| <u>Acute</u> | | |
| Dermal | | |
| ATEmix | | 57210 mg/kg |
| Oral | | |
| ATEmix | | 806500 mg/kg |
| Components | Species | Test Results |
| CITRIC ACID (CAS 5949-29-1) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rat | > 2000 mg/kg, 24 Hours |
| Oral | | |
| LD50 | Mouse | 5400 mg/kg |
| | Rat | 6730 mg/kg |
| GLYCERIN (CAS 56-81-5) | | |
| <u>Acute</u> | | |
| Dermal | | |
| LD50 | Rabbit | > 18700 mg/kg bw |

| Components | Species | Test Results |
|---|--|--|
| Inhalation | | |
| LC50 | Rat | > 570 mg/L air, 1 h |
| Oral | | |
| LD50 | Rat | 27200 mg/kg bw |
| Skin corrosion/irritation | No adverse effects due to skin contact are expected. | |
| Irritation Corrosion - Skin | | |
| CITRIC ACID | | OECD 404 Result: Slightly Irritating Species: Rabbit |
| GLYCERIN | | Result: Not Irritating Species: Rabbit |
| Serious eye damage/eye irritation | No adverse effects due to eye contact are expected. | |
| Irritation Corrosion - Eye | | |
| CITRIC ACID | | OECD 405 Result: Irritating Species: Rabbit |
| GLYCERIN | | Result: Not 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 | | |
| GLYCERIN | | 167 mg/m3 air OECD 413, Inhalation Result: NOAEL Species: Rat Test Duration: 90 d |
| CITRIC ACID | | OECD 406 Result: Not Sensitizing Species: Guinea pig |
| GLYCERIN | | 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 | | |
| CITRIC ACID | | Result: In vitro and in vivo tests did not show mutagenic effects. |
| GLYCERIN | | 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 1910.1001-1052) | 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 | | |
| CITRIC ACID | | > 295 mg/kg bw/d, No effects on development Result: NOAEL Species: Rat |
| GLYCERIN | | 1310 mg/kg bw/d, No effects on development Result: NOAEL Species: Rat |
| Reproductivity | | |
| CITRIC ACID | | > 2500 mg/kg bw/d, No effects on fertility Result: NOAEL Species: Rat |

Reproductivity
GLYCERIN

2000 mg/kg bw/d, No effects on fertility
Result: NOAEL
Species: Rat

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

CITRIC ACID

4000 mg/kg bw/d, Oral
Result: NOAEL
Species: Rat

GLYCERIN

Test Duration: 10 d
8000 mg/kg bw/d, Oral
Result: NOAEL
Species: Rat
Test Duration: 2 yr

Aspiration hazard Not an aspiration hazard.

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

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 |
|-----------------------------|---------|---|
| CITRIC ACID (CAS 5949-29-1) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | LOEC | Microcystis aeruginosa 80 mg/l, 7 d |
| Crustacea | EC50 | Daphnia magna 1535 mg/l, 24 h |
| Fish | LC50 | Leuciscus idus 440 - 760 mg/l, 96 h |
| Other | NOAEC | Pseudomonas putida 18 h |
| GLYCERIN (CAS 56-81-5) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC0 | Scenedesmus quadricauda > 10000 mg/l, 192 h |
| Crustacea | EC50 | Daphnia magna 1955 mg/l, 48 h |
| Fish | LC50 | Oncorhynchus mykiss 54000 mg/l, 96 h |
| Other | NOEC | Pseudomonas putida > 10000 mg/l, 16 h |

Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

GLYCERIN

OECD 301
Result: Readily Biodegradable

Percent degradation (Aerobic biodegradation-ready)

CITRIC ACID

97 %
Result: Readily Biodegradable
Test Duration: 28 d

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

CITRIC ACID

-1.64

GLYCERIN

-1.76

Bioaccumulation

CITRIC ACID

Result: Bioaccumulation is unlikely.

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. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| 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

FINISHED GOODS

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods.

IATA

FINISHED GOODS

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods.

IMDG

FINISHED GOODS

Not regulated as dangerous goods.

BULK

Not regulated as dangerous goods.

15. Regulatory information

| | |
|-------------------------------|--|
| US federal regulations | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
|-------------------------------|--|

Toxic Substances Control Act (TSCA)

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No (Exempt)

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

GLYCERIN (CAS 56-81-5)

Other Flavoring Substances with OSHA PEL's

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

Issue date 12-08-2022

Version # 01

NFPA ratings Health: 0
Flammability: 1
Instability: 0

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