

# SAFETY DATA SHEET

## PUREOLOGY HYDRATE OIL

Version 1.1      Revision Date: 04/19/2024      SDS Number: 30-19-400000179657      Date of last issue: 04/10/2024  
Date of first issue: 04/10/2024

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### SECTION 1. IDENTIFICATION

Product name : PUREOLOGY HYDRATE OIL

Formula Center Reference : 1218469PR4

#### Manufacturer or supplier's details

Address : L'Oreal USA Products, Inc  
133, Terminal Avenue  
Clark, NJ 07066  
USA

Telephone : 1-732-499-2745

E-mail address : CORPREGAFFAIRSMSDS@LOREAL.COM

#### Emergency telephone

INFOTRAC : 1-800-535-5053 (International: +1 352-323-3500) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

#### 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 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 3

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.

Precautionary Statements : P102 Keep out of reach of children.  
P103 Read label before use.

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### Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/ eye protection/ face protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
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.

### Disposal:

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

### Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:  
15.7 %

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Components

Chemical name	CAS-No.	Concentration (% w/w)
ISODODECANE	13475-82-6	$\geq 30 - < 50$
DIMETHICONE	141-63-9	$\geq 10 - < 20$
AMODIMETHICONE	106842-44-8	$\geq 1 - < 5$

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air.  
Call a physician if symptoms develop or persist.

In case of skin contact : Get medical attention if irritation develops and persists.

In case of eye contact : Rinse with water.

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If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth with water.  
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

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

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
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).

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against : Do not spray on a naked flame or any incandescent material.

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- fire and explosion      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.  
Container may be opened only under exhaust ventilation hood.  
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.
- Further information on storage stability      : No decomposition if stored and applied as directed.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 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
- Color      : colorless
- Odor      : characteristic

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pH : Not applicable

Melting point/freezing point : No data available

Boiling point/boiling range : Not available

Flash point : 129.2 °F / 54.0 °C  
Method: ISO 3679

Fire Point : < 100 °C  
Method:ISO 2592

Upper explosion limit / Upper flammability limit : 19 %(V)  
(for a component of this mixture)

Lower explosion limit / Lower flammability limit : 3.3 %(V)  
(for a component of this mixture)

Vapor pressure : 59.5 hPa  
(for a component of this mixture)

Relative vapor density : No data available

Relative density : 0.797 - 0.803 (68 °F / 20 °C)

Solubility(ies)  
Water solubility : partly soluble

Partition coefficient: n-octanol/water : Not applicable

Autoignition temperature : 689 °F / 365 °C  
(for a component of this mixture)

Decomposition temperature : Not applicable

Viscosity  
Viscosity, kinematic : > 20.5 mm<sup>2</sup>/s (104 °F / 40 °C)

Dust explosion class : Not applicable

Particle size : Not applicable

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

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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

Not classified based on available information.

#### Product:

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

#### 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

##### DIMETHICONE:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 22.6 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

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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

**AMODIMETHICONE:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

**ISODODECANE:**

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

**AMODIMETHICONE:**

Result : Skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:**

**ISODODECANE:**

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

**AMODIMETHICONE:**

Result : Eye irritation

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### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### Components:

##### ISODODECANE:

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

##### AMODIMETHICONE:

Routes of exposure : Skin contact  
Result : Does not cause skin sensitization.

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### AMODIMETHICONE:

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

### Carcinogenicity

Not classified based on available information.

#### Components:

##### AMODIMETHICONE:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

Not classified based on available information.

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### STOT-repeated exposure

Not classified based on available information.

#### Components:

##### AMODIMETHICONE:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Components:

##### DIMETHICONE:

Species : Rat, male and female  
NOEC :  $\geq 400$  mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Method : OECD Test Guideline 413

### Aspiration toxicity

Not classified based on available information.

#### Components:

##### ISODODECANE:

May be fatal if swallowed and enters airways.

### Further information

#### Product:

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

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### ISODODECANE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)):  $> 0.0028$  mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)):  $> 100$  mg/l

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aquatic invertebrates      Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants      :    EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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.

### AMODIMETHICONE:

Toxicity to daphnia and other aquatic invertebrates      :    EC50 (Daphnia magna (Water flea)): 1.8 mg/l  
Exposure time: 48 h

### Persistence and degradability

#### Components:

#### ISODODECANE:

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

#### DIMETHICONE:

Biodegradability      :    Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d

#### AMODIMETHICONE:

Biodegradability      :    Result: Not readily biodegradable.  
Biodegradation: 0.43 %  
Exposure time: 29 d  
Method: OECD Test Guideline 301B

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### Bioaccumulative potential

#### Components:

##### **ISODODECANE:**

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

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

##### **DIMETHICONE:**

Bioaccumulation : Bioconcentration factor (BCF): 4,260  
Method: OECD Test Guideline 305

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste Code : D001: Ignitability

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 : Dispose of as unused product.  
Do not reuse empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14. TRANSPORT INFORMATION

### Domestic regulation

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### 49 CFR

UN/ID/NA number : UN 2286  
Proper shipping name : Pentamethylheptane SOLUTION  
  
Class : 3  
Packing group : III  
Labels : FLAMMABLE LIQUID  
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



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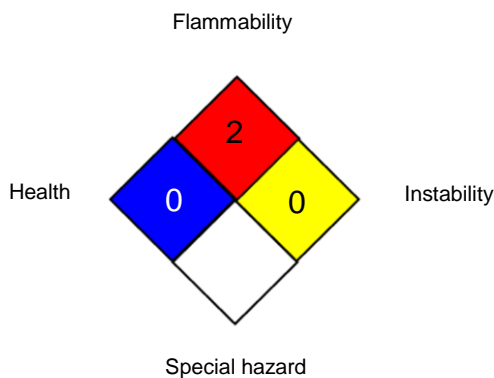
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### SECTION 16. OTHER INFORMATION

#### Further information

#### NFPA 704:



#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; KECI - 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the

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Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - 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

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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