

## 1. Identification

**Product identifier** L'ORÉAL PROFESSIONNEL DIA LIGHT SEMI PERMANENT HAIR COLOUR – GROUP 6

**Other means of identification**

**SDS number** 00-21-0000174

**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** Serious eye damage/eye irritation Category 1  
Sensitization, skin Category 1A

**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Danger

**Hazard statement** May cause an allergic skin reaction. Causes serious eye damage.

### Precautionary statement

#### Prevention

Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves.

#### Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

#### Storage

Store away from incompatible materials.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

**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	%
LAURETH-2		68439-50-9	8
TRIDECETH-2 CARBOXAMIDE MEA		107628-04-6	4
PEG-4 RAPESEEDAMIDE		85536-23-8	3.7
GLYCERIN		56-81-5	3
LAURETH-12		68439-50-9	3
TOLUENE-2,5-DIAMINE		95-70-5	< 2
M-AMINOPHENOL		591-27-5	< 2
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE		155601-30-2	1.25
4-AMINO-2-HYDROXYTOLUENE		2835-95-2	< 2
N,N-BIS(2-HYDROXYETHYL)-p-PH ENYLENEDIAMINE SULFATE		54381-16-7	< 2
P-AMINOPHENOL		123-30-8	< 0.8
RESORCINOL		108-46-3	0.7
6-HYDROXYINDOLE		2380-86-1	< 0.3
1-NAPHTHOL		90-15-3	≤ 0.4

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

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
<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 immediately.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	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. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<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>	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>	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>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

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.

### Environmental precautions

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.

## 7. Handling and storage

### Precautions for safe handling

Do not get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. 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.

#### US. ACGIH Threshold Limit Values

Components	Type	Value
RESORCINOL (CAS 108-46-3)	STEL	20 ppm
	TWA	10 ppm

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

Components	Type	Value
RESORCINOL (CAS 108-46-3)	STEL	90 mg/m3
		20 ppm
	TWA	45 mg/m3
		10 ppm

#### US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
TOLUENE-2,5-DIAMINE (CAS 95-70-5)	TWA	0.025 mg/m3
		0.005 ppm

### Biological limit values

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

## Exposure guidelines

### US WEEL Guides: Skin designation

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

Can be absorbed through the skin.

### 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) and a face shield. Face shield is recommended.

#### 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. Use of an impervious apron is recommended.

#### 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. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

### Appearance

#### Physical state

Liquid.

#### Color

Shaded

#### Odor

Characteristic.

#### Odor threshold

Not available.

#### pH

6.4 - 6.8

#### Melting point/freezing point

Not available.

#### Initial boiling point and boiling range

> 212 °F (> 100 °C)

#### Flash point

> 212.0 °F (> 100.0 °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

0.96 - 1.02 g/cm<sup>3</sup>

<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>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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>	May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.
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### Information on toxicological effects

<b>Acute toxicity</b>	Not known.
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<b>Product</b>	<b>Species</b>	<b>Test Results</b>
L'ORÉAL PROFESSIONNEL DIA LIGHT SEMI PERMANENT HAIR COLOUR – GROUP 6		
<b>Acute</b>		
<b>Dermal</b>		
ATEmix		22400 mg/kg
<b>Oral</b>		
ATEmix		3898 mg/kg
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE (CAS 155601-30-2)		
<b>Acute</b>		
<b>Inhalation</b>		
<i>Aerosol</i>		
LD50	Rat	> 5.24 mg/m3, 4 h OECD 403
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg OECD 401
1-NAPHTHOL (CAS 90-15-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	>= 880 mg/kg
<b>Inhalation</b>		
<i>Aerosol</i>		
LD50	Rat	> 420 mg/m <sup>3</sup> , 1 Hours
<b>Oral</b>		
LD50	Rat	1000 - 2000 mg/kg
4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	3600 mg/kg

Components	Species	Test Results
6-HYDROXYINDOLE (CAS 2380-86-1)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg OECD 402
<b>Inhalation</b>		
<i>Aerosol</i>		
LC50	Rat	> 2000 mg/m3, 4 h OECD 403
<b>Oral</b>		
LD50	Rat	600 - 1200 mg/kg
GLYCERIN (CAS 56-81-5)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 18700 mg/kg bw
<b>Inhalation</b>		
LC50	Rat	> 570 mg/L air, 1 h
<b>Oral</b>		
LD50	Rat	27200 mg/kg bw
LAURETH-12 (CAS 68439-50-9)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
	Rat	> 2000 mg/kg OECD 402
<b>Inhalation</b>		
<i>Aerosol</i>		
LC50	Rat	> 1.6 mg/l, 4 h OECD 403
<b>Oral</b>		
LD50	Rat	> 1000 mg/kg
LAURETH-2 (CAS 68439-50-9)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg OECD 401
M-AMINOPHENOL (CAS 591-27-5)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
LC50	Rat	1162 mg/m3
<b>Oral</b>		
LD50	Rat	924 mg/kg
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE (CAS 54381-16-7)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	-	428 mg/kg
<b>Inhalation</b>		
LC50	-	0.9 mg/l, 4 h
<b>Oral</b>		
LD50	Rat	264 mg/kg

Components	Species	Test Results
P-AMINOPHENOL (CAS 123-30-8)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 8000 mg/kg EPA OPTTS 870.1200
<b>Inhalation</b>		
<i>Dust</i>		
LC50	Rat	> 3.42 mg/l, 4 h OECD 403
<b>Oral</b>		
LD50	Rat	671 mg/kg EPA OPPTS 870.1100
PEG-4 RAPESEEDAMIDE (CAS 85536-23-8)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg OECD 402
<b>Inhalation</b>		
LC50	Rat	6 mg/L air, 4 h OECD 436
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg OECD 401
RESORCINOL (CAS 108-46-3)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	2830 mg/kg FHSL Act
<b>Inhalation</b>		
<i>Aerosol</i>		
LC0	Rat	> 7800 mg/m <sup>3</sup> , 1 h FHSL Act
<b>Oral</b>		
LD50	Rat	510 mg/kg OECD 401
TOLUENE-2,5-DIAMINE (CAS 95-70-5)		
<b>Oral</b>		
LD50	Rat	102 mg/kg OECD 401
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	3520 mg/kg
<b>Inhalation</b>		
<i>Dust</i>		
LC50	Rat	0.99 mg/l, 4 h
TRIDECETH-2 CARBOXAMIDE MEA (CAS 107628-04-6)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg OECD 402
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg OECD 401
<b>Skin corrosion/irritation</b>	Due to partial or complete lack of data the classification is not possible. No adverse effects due to skin contact are expected.	
<b>Irritation Corrosion - Skin</b>		
RESORCINOL		FHLS Act, (100%) Result: Irritating Species: Rabbit
PEG-4 RAPESEEDAMIDE		OECD 404 Result: Irritating Species: Rabbit
TRIDECETH-2 CARBOXAMIDE MEA		OECD 404 Result: Irritating Species: Rabbit

**Irritation Corrosion - Skin**

6-HYDROXYINDOLE	OECD 404 Result: Not Irritating Species: Rabbit
LAURETH-12	OECD 404 Result: Not Irritating Species: Rabbit
LAURETH-2	OECD 404 Result: Not Irritating Species: Rabbit
M-AMINOPHENOL	OECD 404 Result: Not Irritating Species: Rabbit
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE	OECD 404 Result: Slightly Irritating Species: Rabbit
RESORCINOL	OECD 404, (2.5%) Result: Not Irritating Species: Rabbit
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI NE SULFATE	OECD 439 Result: Not Irritating Species: In vitro
TOLUENE-2,5-DIAMINE	OECD 439 Result: Not Irritating Species: In vitro
4-AMINO-2-HYDROXYTOLUENE	OECD 439 Result: Not Irritating Species: RhE
1-NAPHTHOL	Result: Irritating Species: Rabbit
GLYCERIN	Result: Not Irritating Species: Rabbit
P-AMINOPHENOL	Result: Slightly Irritating Species: Rabbit

**Serious eye damage/eye  
irritation**

Causes serious eye damage.

**Irritation Corrosion - Eye**

P-AMINOPHENOL	EPA OPPTS 870.2400 Result: Slightly Irritating Species: Rabbit
RESORCINOL	FHLS Act, (100%) Result: Corrosive Species: Rabbit
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE	OECD 405 Result: Corrosive Species: Rabbit
6-HYDROXYINDOLE	OECD 405 Result: Corrosive Species: Rabbit
LAURETH-12	OECD 405 Result: Corrosive Species: Rabbit
TOLUENE-2,5-DIAMINE	OECD 405 Result: Corrosive Species: Rabbit
TRIDECETH-2 CARBOXAMIDE MEA	OECD 405 Result: Irritating Species: Rabbit
M-AMINOPHENOL	OECD 405 Result: Not Irritating Species: Rabbit
LAURETH-2	OECD 405 Result: Severely Irritating Species: Rabbit
PEG-4 RAPESEEDAMIDE	OECD 405 Result: Slightly Irritating Species: Rabbit



**Irritation Corrosion - Eye**

RESORCINOL	OECD 405, (2.5%) Result: Not Irritating Species: Rabbit
1-NAPHTHOL	OECD 438 Result: Corrosive Species: In vitro
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE	OECD 438 Result: Irritating Species: In vitro
4-AMINO-2-HYDROXYTOLUENE	OECD 492 Result: Not Irritating Species: RhCE
GLYCERIN	Result: Not Irritating Species: Rabbit

**Respiratory or skin sensitization**

**Respiratory sensitization** Due to partial or complete lack of data the classification is not possible.

**Skin sensitization** May cause an allergic skin reaction.

**Skin sensitization**

GLYCERIN	167 mg/m3 air OECD 413, Inhalation Result: NOAEL Species: Rat Test Duration: 90 d
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE	EU Method B.6 - Cat 1 Result: Sensitizing Species: Guinea pig
LAURETH-12	OECD 406 Result: Not Sensitizing Species: Guinea pig
LAURETH-2	OECD 406 Result: Not Sensitizing Species: Guinea pig
PEG-4 RAPESEEDAMIDE	OECD 406 Result: Not Sensitizing Species: Guinea pig
TRIDECETH-2 CARBOXAMIDE MEA	OECD 406 Result: Not Sensitizing Species: Guinea pig
P-AMINOPHENOL	OECD 406 Result: Sensitizing Species: Guinea pig
1-NAPHTHOL	OECD 429 Result: Sensitizing Species: Mouse
4-AMINO-2-HYDROXYTOLUENE	OECD 429 Result: Sensitizing Species: Mouse
6-HYDROXYINDOLE	OECD 429 Result: Sensitizing Species: Mouse
M-AMINOPHENOL	OECD 429 Result: Sensitizing Species: Mouse
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE	OECD 429 Result: Sensitizing Species: Mouse
RESORCINOL	OECD 429 Result: Sensitizing Species: Mouse
TOLUENE-2,5-DIAMINE	OECD 429 Result: Sensitizing Species: Mouse
GLYCERIN	Result: Not Sensitizing Species: Guinea pig

**Germ cell mutagenicity** Due to partial or complete lack of data the classification is not possible.

**Mutagenicity**

GLYCERIN

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

LAURETH-12

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

LAURETH-2

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

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE

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

PEG-4 RAPESEEDAMIDE

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

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE

Result: In vitro tests did not show mutagenic effects

TRIDECETH-2 CARBOXAMIDE MEA  
M-AMINOPHENOL

Result: In vitro tests did not show mutagenic effects

Result: In vitro tests showed mutagenic effects which were not observed with in vivo test.

RESORCINOL

Result: In vitro tests showed mutagenic effects which were not observed with in vivo test.

TOLUENE-2,5-DIAMINE

Result: In vitro tests showed mutagenic effects which were not observed with in vivo test.

4-AMINO-2-HYDROXYTOLUENE

Result: In vitro tests showed mutagenic effects which were not observed with in vivo tests.

6-HYDROXYINDOLE

Result: In vitro tests showed mutagenic effects which were not observed with in vivo tests.

1-NAPHTHOL

Result: In vitro tests showed varied results. In vivo tests showed negative results.

P-AMINOPHENOL

Result: In vivo tests showed mutagenic effects

**Carcinogenicity**

Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

RESORCINOL (CAS 108-46-3)

3 Not classifiable as to carcinogenicity to humans.

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

3 Not classifiable as to carcinogenicity to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

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

Not listed.

**Reproductive toxicity**

Due to partial or complete lack of data the classification is not possible.

**Developmental effects**

LAURETH-12

&gt;= 250 mg/kg bw/d OECD 416

Result: NOAEL

Species: Rat

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE

&gt;= 50 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

M-AMINOPHENOL

100 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

P-AMINOPHENOL

100 mg/kg bw/d OECD 421

Result: NOAEL

Species: Rat

TRIDECETH-2 CARBOXAMIDE MEA

1000 mg/kg bw/d OECD 422

Result: NOAEL

Species: Rat

GLYCERIN

1310 mg/kg bw/d, No effects on development

Result: NOAEL

Species: Rat

4-AMINO-2-HYDROXYTOLUENE

180 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

RESORCINOL

250 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

1-NAPHTHOL

400 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

**Developmental effects**

TOLUENE-2,5-DIAMINE

50 mg/kg bw/d OECD 414, Based on test data for structurally similar materials.

Result: NOAEL

Species: Rat

6-HYDROXYINDOLE

50 mg/kg bw/d

Result: NOAEL

Species: Rat

PEG-4 RAPESEEDAMIDE

500 mg/kg bw/d OECD 421, No effects on development

Result: NOEL

Species: Rat

**Reproductivity**

LAURETH-12

&gt;= 250 mg/kg bw/d OECD 416

Result: NOAEL

Species: Rat

TOLUENE-2,5-DIAMINE

&gt;= 45 mg/kg bw/d OECD 416, Based on test data for structurally similar materials.

Result: NOAEL

Species: Rat

P-AMINOPHENOL

100 mg/kg bw/d OECD 421

Result: NOAEL

Species: Rat

LAURETH-2

1000 mg/kg bw/d OECD 421

Result: NOAEL

Species: Rat

TRIDECETH-2 CARBOXAMIDE MEA

1000 mg/kg bw/d OECD 421

Result: NOAEL

Species: Rat

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE

20 mg/kg bw/d OECD 408

Result: NOAEL

Species: Rat

Test Duration: 90 d

4-AMINO-2-HYDROXYTOLUENE

200 mg/kg bw/d OECD 415

Result: NOAEL

Species: Rat

GLYCERIN

2000 mg/kg bw/d, No effects on fertility

Result: NOAEL

Species: Rat

RESORCINOL

245 mg/kg bw/d OECD 416

Result: NOAEL

Species: Rat

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE

300 mg/kg bw/d OECD 415

Species: Rat

PEG-4 RAPESEEDAMIDE

500 mg/kg bw/d OECD 421, No effects on fertility

Result: NOEL

Species: Rat

1-NAPHTHOL

Result: No Data

**Specific target organ toxicity - single exposure**

Due to partial or complete lack of data the classification is not possible.

1-NAPHTHOL

Result: Irritating

**Specific target organ toxicity - repeated exposure**

Due to partial or complete lack of data the classification is not possible.

LAURETH-12

&gt;= 500 mg/kg bw/d OECD 408

Result: NOAEL

Species: Rat

Test Duration: 90 d

P-AMINOPHENOL

10 mg/kg bw/d OECD 408

Result: NOAEL

Species: Rat

Test Duration: 90 d

TOLUENE-2,5-DIAMINE

10 mg/kg bw/d OECD 408, Oral

Result: NOEAL

Species: Rat

Test Duration: 90 d

**Specific target organ toxicity - repeated exposure**

LAURETH-2	100 mg/kg bw/d OECD 407, Based on test data for structurally similar materials. Result: NOAEL Species: Rat Test Duration: 28 d
6-HYDROXYINDOLE	100 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 90 d
1-NAPHTHOL	130 mg/kg bw/d OECD 408 Result: NOAEL Species: Rat Test Duration: 90 d
PEG-4 RAPESEEDAMIDE	150 mg/kg bw/d OECD 407, Oral Result: NOAEL Species: Rat Test Duration: 90 d
4-AMINO-2-HYDROXYTOLUENE	180 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 90 d
M-AMINOPHENOL	20 mg/kg bw/d OECD 408 Result: NOAEL Species: Rat Test Duration: 90 d
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE	20 mg/kg bw/d OECD 408 Result: NOAEL Species: Rat Test Duration: 90 d
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE	250 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 90 d
TRIDECETH-2 CARBOXAMIDE MEA	300 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 90 d
RESORCINOL	80 mg/kg bw/d OECD 408, Oral Result: NOAEL Species: Rat Test Duration: 90 d
GLYCERIN	8000 mg/kg bw/d, Oral Result: NOAEL Species: Rat Test Duration: 2 yr
RESORCINOL	991 mg/m <sup>3</sup> Result: NOAEC Species: Rat Test Duration: 14 d

**Aspiration hazard**

Due to partial or complete lack of data the classification is not possible.

**Further information**

May cause allergic respiratory and skin reactions. 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
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE (CAS 155601-30-2)		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	Pseudokirchneriella subcapitata	5.33 mg/l, 72 h EU C.3
Crustacea	EC50 Daphnia magna	11.12 mg/l, 48 h TG 202
Fish	LC50 Danio rerio	86.2 mg/l, 96 h EU C.1

Components		Species	Test Results
1-NAPHTHOL (CAS 90-15-3)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 2.18 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	2.51 mg/l, 48 h
Fish	LC50	Pimephales promelas	4.24 mg/l, 96 h
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.25 mg/l, 21 d OECD 211
4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	41 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	2.3 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	25 mg/l, 96 h OECD 236
Other	EC50	Activated sludge of a predominantly domestic sewage	> 150 mg/l, 3 h OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.24 mg/l, 21 d OECD 211
6-HYDROXYINDOLE (CAS 2380-86-1)			
<i>Acute</i>			
<b>Aquatic</b>			
<i>Acute</i>			
Algae		Desmodesmus subspicatus	9.1 mg/l, 72 h
Crustacea	EC50	Daphnia magna	1.74 mg/l, 48 h
Fish	LC50	Danio rerio	21.7 mg/l, 96 h
Other	IC50	Activated sludge of a predominantly domestic sewage	> 0.9 mg/l, 3 d
GLYCERIN (CAS 56-81-5)			
<b>Aquatic</b>			
<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
LAURETH-12 (CAS 68439-50-9)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	0.29 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.53 mg/l, 48 h
Fish	LC50	Danio rerio	1.2 mg/l, 96 h EU C.1
Other	EC50	Pseudomonas putida	> 10000 mg/l, 16.9 h DIN 38412, 8
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.77 mg/l, 21 d
LAURETH-2 (CAS 68439-50-9)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	0.32 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.53 mg/l, 48 h
Fish	LC50	Leuciscus idus	2.1 mg/l, 48 h OECD 203

Components		Species	Test Results
Other	EC50	Pseudomonas putida	> 10000 mg/l, 30 min OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.77 mg/l, 21 d
Fish	NOEC	Lepomis macrochirus	0.16 mg/l, 10 d
M-AMINOPHENOL (CAS 591-27-5)			
<i>Acute</i>			
Other	IC50	Tetrahymena pyriformis	361 mg/l, 40 h
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	62 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	1.1 mg/l, 48 h DIN 38412, Pt. 11
Fish	LC50	Danio rerio	82.64 mg/l, 96 h OECD 203
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.05 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes	25 mg/l, 25 d OECD 204
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE (CAS 54381-16-7)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	0.338 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.381 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	> 235 mg/l, 96 h
Other	EC50	Activated sludge of a predominantly domestic sewage	228 mg/l, 3 h OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.674 mg/l, 21 d OECD 211
P-AMINOPHENOL (CAS 123-30-8)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 0.253 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.182 mg/l, 48 h OECD 202
Fish	LC50	Oryzias latipes	0.82 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	29.9 mg/l, 3 h OECD 209
PEG-4 RAPESEEDAMIDE (CAS 85536-23-8)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	410 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	3.8 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	2.9 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0.39 mg/l, 21 d OECD 211
RESORCINOL (CAS 108-46-3)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 97 mg/l, 97 h OECD 201
Crustacea	LC50	Daphnia magna	1 mg/l, 48 h OECD 202
Fish	LC50	Pimephales promelas	26.8 mg/l, 96 h EPA-660/3/75-009

Components		Species	Test Results
Other		Activated sludge of a predominantly domestic sewage	79 mg/l, 3 h OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	>= 0.172 mg/l, 21 d
Fish	LOEC	Oncorhynchus mykiss	320 mg/l, 60 d
TOLUENE-2,5-DIAMINE (CAS 95-70-5)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	1.02 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.491 mg/l, 48 h OECD 202
Fish	LC50	Oryzias latipes	0.05 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	3.75 mg/l, 3 h OECD 209
<i>Chronic</i>			
Algae	NOEC	Pseudokirchneriella subcapitata	0.11 mg/l, 72 h OECD 201
TRIDECETH-2 CARBOXAMIDE MEA (CAS 107628-04-6)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	> 2 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.32 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	0.93 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 3 h OECD 209
<i>Chronic</i>			
Algae	NOEC	Desmodesmus subspicatus	0.2 mg/l, 72 OECD 201
Crustacea	NOEC	Daphnia magna	0.022 mg/l, 21 d OECD 211
Fish	NOEC	Oncorhynchus mykiss	0.15 mg/l, 28 d OECD 215

## Persistence and degradability

### Biodegradability

#### Percent degradation (Aerobic biodegradation)

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE	33.3 % EU C.4-E Result: Not readily biodegradable > 77.8 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d
1-NAPHTHOL	
4-AMINO-2-HYDROXYTOLUENE	0 % OECD 301 B Result: Not Readily Biodegradable Test Duration: 28 d
6-HYDROXYINDOLE GLYCERIN	Result: Not Biodegradable OECD 301 Result: Readily Biodegradable
LAURETH-12	95 % OECD 301 F Result: Readily Biodegradable Test Duration: 28 d
LAURETH-2	78 - 79 % OECD 301 D Result: Readily Biodegradable Test Duration: 28 d
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE	14.3 % OECD 301B Result: Not Readily Biodegradable Test Duration: 28 d
PEG-4 RAPESEEDAMIDE	96 % OECD 203 Result: Readily Biodegradable Test Duration: 28 d
RESORCINOL	66.7 % OECD 301 C Result: Readily Biodegradable Test Duration: 14 d

**Biodegradability****Percent degradation (Aerobic biodegradation)**

TOLUENE-2,5-DIAMINE

17 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d

TRIDECETH-2 CARBOXAMIDE MEA

94 % OECD 301 B

Result: Readily Biodegradable

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

1-NAPHTHOL

2.836 OECD 107

4-AMINO-2-HYDROXYTOLUENE

-0.53 EU A.8

0.53 OECD 117

6-HYDROXYINDOLE

1.46 EU A.8

GLYCERIN

-1.76

LAURETH-12

6.1 OECD 117

M-AMINOPHENOL

5.6

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE

-2.8

SULFATE

-2.8 OECD 107

P-AMINOPHENOL

0.25

PEG-4 RAPESEEDAMIDE

5

RESORCINOL

0.8

TOLUENE-2,5-DIAMINE

-0.321 OECD 107

TRIDECETH-2 CARBOXAMIDE MEA

3.8

**Bioconcentration factor (BCF)**

P-AMINOPHENOL

10 - 46 OECD 305 C

**Bioaccumulation**

1-NAPHTHOL

Result: Bioaccumulation is unlikely

P-AMINOPHENOL

Result: Bioaccumulation is unlikely.

TOLUENE-2,5-DIAMINE

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. Dispose of contents/container in accordance with local/regional/national/international regulations.

**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**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**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 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)

RESORCINOL (CAS 108-46-3)

Listed.

TOLUENE-2,5-DIAMINE (CAS 95-70-5)

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)

Chemical name	CAS number	% by wt.
TOLUENE-2,5-DIAMINE	95-70-5	< 2

### 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

RESORCINOL (CAS 108-46-3)

Low priority

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

**Issue date** 01-30-2019

**Revision date** 08-12-2021

**Version #** 03

**NFPA ratings** Health: 3  
Flammability: 1  
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.

### Revision information

Product and Company Identification: Product and Company Identification - L'Oreal  
Hazard(s) identification: GHS Signal Words  
Composition / Information on Ingredients: Ingredients