SAFETY DATA SHEET

1. Identification

Product identifier L'ORÉAL PROFESSIONNEL INOA ULTRA PERMANENT HAIR COLOR - GROUP 1

Other means of identification

SDS number 80-21-0000473

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 Skin corrosion/irritation Category 1C

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

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious

eye damage.

Precautionary statement

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Contaminated work clothing must

not be allowed out of the workplace. Wear protective gloves/protective clothing/eye

protection/face protection.

Material name: L'ORÉAL PROFESSIONNEL INOA ULTRA PERMANENT HAIR COLOR - GROUP 1 46813 Version #: 01 Issue date: 02-14-2022

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. Wash contaminated

clothing before reuse.

Storage Store locked up.

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	%
MINERAL OIL		8042-47-5	60
ETHANOLAMINE		141-43-5	< 5
TOLUENE-2,5-DIAMINE		95-70-5	< 3
DECYL GLUCOSIDE		68515-73-1	1.51
SODIUM LAURYL SULFATE		68955-19-1	1.24
M-AMINOPHENOL		591-27-5	< 2
P-AMINOPHENOL		123-30-8	< 0.8
4-AMINO-2-HYDROXYTOLUENE		2835-95-2	< 0.6
HYDROXYETHYL-3,4-METHYLEN EDIOXYANILINE HCL	N	94158-14-2	< 0.5
N,N-BIS(2-HYDROXYETHYL)-p-P ENYLENEDIAMINE SULFATE	Н	54381-16-7	≤ 0.5
6-HYDROXYINDOLE		2380-86-1	< 0.2

^{*}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 Remove contaminated clothing immediately and wash skin with soap and water. Call a physician

or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

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

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

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Most important

symptoms/effects, acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information 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

Suitable extinguishing media

Foam. Dry chemicals. 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
Specific methods

General fire hazards

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Use standard firefighting procedures and consider the hazards of other involved materials. Will burn if involved in a fire. 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. Do not breathe 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.

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

Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat and sources of ignition. Store in tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the

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 C Components		Value	Form
·	Туре		1 01111
ETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
MINERAL OIL (CAS 8042-47-5)	PEL	5 mg/m3	Mist.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
ETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
MINERAL OIL (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Chemi	cal Hazards		
Components	Туре	Value	Form
ETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
MINERAL OIL (CAS 8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

US. Workplace Environmental Exposure Level (WEEL) Guides

Value Components Type **TOLUENE-2,5-DIAMINE** TWA 0.025 mg/m3

0.005 ppm

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

Exposure guidelines

(CAS 95-70-5)

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

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

face shield. Face shield is recommended.

Skin protection

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

Other Applicable for industrial settings only. Wear appropriate chemical resistant clothing. Use of an

impervious apron is recommended.

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

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 Not available. Not available. Odor **Odor threshold** Not available. 10.4 - 11.4 Melting point/freezing point Not available.

Initial boiling point and boiling

> 212 °F (> 100 °C)

Flash point > 212.0 °F (> 100.0 °C) Closed Cup

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

Flammability limit - lower

Not available.

(%)

range

Flammability limit - upper

Not available.

Not available.

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available. Vapor pressure Not available. Vapor density

Relative density Solubility(ies)

> Solubility (water) Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Other information

Density>= 0.89 g/cm³Explosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.

10. Stability and reactivity

ReactivityThe 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. 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 May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contactCauses serious eye damage. **Ingestion**Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity Not known.

Product Species Test Results

L'ORÉAL PROFESSIONNEL INOA ULTRA PERMANENT HAIR COLOR - GROUP 1

Acute Dermal

ATEmix 25930 mg/kg

Oral

ATEmix 3998 mg/kg

Components Species Test Results

4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2)

Acute Oral

LD50 Rat

3600 mg/kg

6-HYDROXYINDOLE (CAS 2380-86-1)

Acute Dermal

LD50 Rat > 2000 mg/kg OECD 402

Compo	nents	Species	Test Results
	Inhalation		
	Aerosol		
	LC50	Rat	> 2000 mg/m3, 4 h OECD 403
	Oral		
	LD50	Rat	600 - 1200 mg/kg
DECYL	GLUCOSIDE (CAS 68515-73	3-1)	
	Acute Dermal		
	LD50	Rabbit	> 2000 mg/kg OECD 402
	Oral	rabbit	2000 mg/kg 0200 102
	LD50	Rat	> 5000 mg/kg OECD 401
FTHAN	OLAMINE (CAS 141-43-5)		
	Acute		
	Dermal		
	LD50	Rabbit	2504 mg/kg OECD 402
	Inhalation		
	Vapor		
	LC50	Rat	> 1.3 mg/l, 6 h
	Oral		
	LD50	Rat	1515 mg/kg OECD 401
HYDRO	XYETHYL-3,4-METHYLENE	DIOXYANILINE HCL (CAS 94158-14-2)	
	<u>Acute</u>		
	Oral	D.	4050 # 0500 404
	LD50	Rat	1650 mg/kg OECD 401
M-AMIN	OPHENOL (CAS 591-27-5)		
	Acute		
	Inhalation LC50	Rat	1162 mg/m3
	Oral	Tat	1102 mg/mo
	LD50	Rat	924 mg/kg
MINIERA	AL OIL (CAS 8042-47-5)	· Cat	oz i mg/kg
WIII VEI O	Acute		
	Dermal		
	LD50	Rabbit	> 2000 mg/kg OECD 402
	Inhalation		
	Aerosol		
	LC50	Rat	> 5 mg/L air, 4 h OECD 403
	Oral		
	LD50	Rat	> 5000 mg/kg OECD 401
N,N-BIS	(2-HYDROXYETHYL)-p-PHE	ENYLENEDIAMINE SULFATE (CAS 54381-16-7)	
	<u>Acute</u>		
	Dermal		
	LD50	-	428 mg/kg
	Inhalation		0.0// 4.5-
	LC50	-	0.9 mg/l, 4 h
	Oral	Det	204 marther
	LD50	Rat	264 mg/kg

Components **Species Test Results**

P-AMINOPHENOL (CAS 123-30-8)

Acute

Dermal

LD50 Rabbit > 8000 mg/kg EPA OPTTS 870.1200

Inhalation

Dust

LC50 Rat > 3.42 mg/l, 4 h OECD 403

Oral

LD50 Rat 671 mg/kg EPA OPPTS 870.1100

SODIUM LAURYL SULFATE (CAS 68955-19-1)

<u>Acute</u>

Dermal

LD50 Rat > 2000 mg/kg OECD 402

Oral

LD50 Rat 4010 mg/kg OECD 401

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

Oral

LD50 Rat 102 mg/kg OECD 401

Acute Dermal

LD50 Rabbit 3520 mg/kg

Inhalation

Dust

LC50 Rat 0.99 mg/l, 4 h

Skin corrosion/irritation Causes severe skin burns and eye damage.

Irritation Corrosion - Skin

ETHANOLAMINE OECD 404

Result: Corrosive Species: Rabbit

6-HYDROXYINDOLE **OECD 404**

> Result: Not Irritating Species: Rabbit

OECD 404 DECYL GLUCOSIDE

Result: Not Irritating

Species: Rabbit

M-AMINOPHENOL **OECD 404**

Result: Not Irritating Species: Rabbit

MINERAL OIL **OECD 404**

Result: Not Irritating

Species: Rabbit

OECD 404, (88.7% a.i.)

SODIUM LAURYL SULFATE Result: Irritating

Species: Rabbit

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI OECD 439

Result: Not Irritating NE SULFATE

Species: In vitro **OECD 439**

TOLUENE-2,5-DIAMINE

Result: Not Irritating Species: In vitro

OECD 439 4-AMINO-2-HYDROXYTOLUENE

> Result: Not Irritating Species: RhE

OECD 439 HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE

HCL Result: Not Irritating

Species: RhE

P-AMINOPHENOL Result: Slightly Irritating

Species: Rabbit

Irritation Corrosion - Eye

P-AMINOPHENOL EPA OPPTS 870.2400

Result: Slightly Irritating

Species: Rabbit 6-HYDROXYINDOLE OECD 405

Result: Corrosive Species: Rabbit

DECYL GLUCOSIDE OECD 405

Result: Corrosive Species: Rabbit

ETHANOLAMINE OECD 405
Result: Corrosive

Species: Rabbit

TOLUENE-2,5-DIAMINE OECD 405

Result: Corrosive Species: Rabbit

M-AMINOPHENOL OECD 405

Result: Not Irritating Species: Rabbit

MINERAL OIL OECD 405

Result: Not Irritating Species: Rabbit

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI OECD 438

NE SULFATE

Result: Irritating Species: In vitro OECD 492

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE OECD 492

HCL

Result: Irritating Species: RhCE OFCD 492

4-AMINO-2-HYDROXYTOLUENE OECD 492

Result: Not Irritating Species: RhCE

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Skin sensitization

DECYL GLUCOSIDE OECD 406

Result: Not Sensitizing Species: Guinea pig

MINERAL OIL OECD 406

Result: Not Sensitizing Species: Guinea pig

SODIUM LAURYL SULFATE OECD 406

Result: Not Sensitizing Species: Guinea pig

P-AMINOPHENOL OECD 406

Result: Sensitizing
Species: Guinea pig

4-AMINO-2-HYDROXYTOLUENE OECD 429

Result: Sensitizing

Species: Mouse 6-HYDROXYINDOLE OECD 429

Result: Sensitizing

Result. Sens

Species: Mouse OECD 429

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE OEC HCL Res

CL

Result: Sensitizing Species: Mouse

M-AMINOPHENOL OECD 429

Result: Sensitizing Species: Mouse

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI OECD 429

Material name: L'ORÉAL PROFESSIONNEL INOA ULTRA PERMANENT HAIR COLOR - GROUP 1

NE SULFATE

Result: Sensitizing

Species: Mouse TOLUENE-2,5-DIAMINE OECD 429

Result: Sensitizing

Species: Mouse

Skin sensitization

ETHANOLAMINE 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

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

effects.

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI Result: In vitro and in vivo tests did not show mutagenic

NE SULFATE

effects.

ETHANOLAMINE Result: In vitro and in vivo tests did show mutagenic effects

MINERAL OIL Result: In vitro tests did not show mutagenic effects SODIUM LAURYL SULFATE Result: In vitro tests did not show mutagenic effects

HCL

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE Result: In vitro tests showed mutagenic effects which were

not observed with in vivo test.

M-AMINOPHENOL 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.

Result: In vitro tests showed mutagenic effects which were 4-AMINO-2-HYDROXYTOLUENE

not observed with in vivo tests.

6-HYDROXYINDOLE Result: In vitro tests showed mutagenic effects which were

not observed with in vivo tests.

P-AMINOPHENOL Result: In vivo tests showed mutagenic effects

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

MINERAL OIL (CAS 8042-47-5) 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)

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

M-AMINOPHENOL

DECYL GLUCOSIDE

MINERAL OIL > 5000 mg/kg bw/d OECD 414. No effects on development

Result: NOAEL Species: Rat

>= 450 mg/kg bw/d OECD 414 **ETHANOLAMINE**

Result: NOAEL Species: Rat

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI >= 50 mg/kg bw/d OECD 414

NE SULFATE

Result: NOAEL

Species: Rat

100 mg/kg bw/d OECD 414

Result: NOAEL

Species: Rat

P-AMINOPHENOL 100 mg/kg bw/d OECD 421

Result: NOAEL

Species: Rat

1000 mg/kg bw/d OECD 414, No effects on development Species: Rat

180 mg/kg bw/d OECD 414 4-AMINO-2-HYDROXYTOLUENE

Result: NOAEL Species: Rat

SODIUM LAURYL SULFATE 250 mg/kg bw/d OECD 414, Based on test data for

structurally similar materials.

Result: NOEL Species: Rat

26 mg/kg bw/day OECD 414 HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE

HCL

Result: NOAEL

Species: Rat

50 mg/kg bw/d OECD 414, Based on test data for structurally **TOLUENE-2,5-DIAMINE**

similar materials. Result: NOAEL Species: Rat

Developmental effects

6-HYDROXYINDOLE 50 mg/kg bw/d

Result: NOAEL Species: Rat

Reproductivity

MINERAL OIL >= 2000 mg/kg bw/d OECD 415, No effects on fertility

Result: NOAEL Species: Rat

>= 45 mg/kg bw/d OECD 416, Based on test data for **TOLUENE-2,5-DIAMINE**

structurally similar materials.

Result: NÓAEL Species: Rat

P-AMINOPHENOL 100 mg/kg bw/d OECD 421

Result: NOAEL Species: Rat

1000 mg/kg bw/d OECD 421, No effects on fertility **DECYL GLUCOSIDE**

Result: NOAEL Species: Rat

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMI 20 mg/kg bw/d OECD 408

Result: NOAEL **NE SULFATE**

Species: Rat Test Duration: 90 d

4-AMINO-2-HYDROXYTOLUENE 200 mg/kg bw/d OECD 415

Result: NOAEL Species: Rat

300 mg/kg bw/d OECD 416 **ETHANOLAMINE**

Result: NOAEL Species: Rat

Specific target organ toxicity -Not classified.

single exposure

SODIUM LAURYL SULFATE Result: Irritating

Specific target organ toxicity -Not classified.

repeated exposure

MINERAL OIL > 2000 mg/kg bw/d OECD 411, Dermal

> Result: NOAEL Species: Rat Test Duration: 90 d

> 50 mg/m3 air OECD 412, Inhalation

Result: NOAEC Species: Rat Test Duration: 28 d

>= 1200 mg/kg bw/d OECD 453, Oral

Result: NOAEL Species: Rat Test Duration: 2 years

10 mg/kg bw/d OECD 408 P-AMINOPHENOL

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

100 mg/kg bw/d OECD 408, Oral 6-HYDROXYINDOLE

> Result: NOAEL Species: Rat Test Duration: 90 d

DECYL GLUCOSIDE 1000 mg/kg bw/d EU B.26, Oral

Result: NOAEL Species: Rat Test Duration: 90 d

FTHANOLAMINE 150 mg/m3 air OECD 412, Inhalation

Result: NOAEC Species: Rat Test Duration: 28 d

Specific target organ toxicity - repeated exposure

4-AMINO-2-HYDROXYTOLUENE 180 mg/kg bw/d OECD 408, Oral

Result: NOAEL Species: Rat Test Duration: 90 d

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL 20 mg/kg bw/d OECD 408

Result: NOAEL Species: Rat

Test Duration: 13 weeks
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

ETHANOLAMINE 300 mg/kg bw/d OECD 416, Oral

Result: NOAEL Species: Rat

Aspiration hazard Not an aspiration hazard.

Chronic effects May be harmful if absorbed through skin.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

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

EcotoxicityThe 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
4-AMINO-2-HYDROX	YTOLUENE (CAS 2	2835-95-2)	
Aquatic			
Acute			
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
Chronic			
Crustacea	NOEC	Daphnia magna	0.24 mg/l, 21 d OECD 211
6-HYDROXYINDOLE	(CAS 2380-86-1)		
Acute			
Aquatic			
Acute			
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
DECYL GLUCOSIDE	(CAS 68515-73-1)		
Aquatic	,		
Acute			
Algae	EC50	Desmodesmus subspicatus	19 mg/l, 72 h DIN 38412 PT 9
Crustacea	EC50	Daphnia magna	7 mg/l, 48 h OECD 202

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omponents		Species	Test Results
	NOEC	Daphnia magna	2 mg/l, 21 d OECD 202
Fish	LC50	Danio rerio	2.95 mg/l, 96 h OECD 203
Other	EC0	Pseudomonas putida	1000 mg/l, 0.5 h DIN 38412 PT 8
Chronic			
Fish	NOEC	Danio rerio	1.8 mg/l, 28 d OECD 204
THANOLAMINE (CAS 141	-43-5)		
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	2.8 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	65 mg/l, 48 h EU C.2
Fish	LC50	Cyprinus carpio	349 mg/l, 96 h EU C.1
Other	EC10	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 30 min OECD 209
Chronic	NOFO	Dankais assaus	0.05
Crustacea	NOEC	Daphnia magna	0.85 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes	1.24 mg/l, 41 d OECD 210
	HYLENEDIOXYA	ANILINE HCL (CAS 94158-14-2)	
Aquatic <i>Acute</i>			
Algae	EC50	Desmodesmus subspicatus	17.9 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	2.67 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	106 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly	77 mg/l, 3 h OECD 209
		domestic sewage	
Chronic			
Algae	NOEC	Desmodesmus subspicatus	12.5 mg/l, 72 h OECD 201
1-AMINOPHENOL (CAS 59	91-27-5)		
Acute	IC50	Totrobumono nuriformio	364 mg/l 40 h
Other	1050	Tetrahymena pyriformis	361 mg/l, 40 h
Aquatic			
<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
Chronic	2000	Ballio Tello	02.04 mg/l, 00 m 0E0B 200
Crustacea	NOEC	Daphnia magna	0.05 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes	25 mg/l, 25 d OECD 204
IINERAL OIL (CAS 8042-4		- ',p	
Aquatic Acute	,		
Algae	NOEL	Pseudokirchneriella subcapitata	> 100 mg/l, 72 h OECD 201
Crustacea	EL50	Daphnia magna	> 100 mg/l, 48 h OECD 202
Fish	LL50	Oncorhynchus mykiss	> 100 mg/l, 96 h OECD 203
Chronic			5 ·
Crustacea	NOEC	Daphnia magna	10 mg/l, 21 d OECD 211
,N-BIS(2-HYDROXYETHY	L)-p-PHENYLEN	IEDIAMINE SULFATE (CAS 54381-16-7)	
Aquatic		,	
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	0.338 mg/l, 72 h OECD 201

omponents		Species	Test Results
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
Chronic			
Crustacea	NOEC	Daphnia magna	0.674 mg/l, 21 d OECD 211
AMINOPHENOL (CA	AS 123-30-8)		
Aquatic			
Acute			
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
ODIUM LAURYL SUL	FATE (CAS 6895	5-19-1)	
Aquatic			
Acute			
Algae	EC50	Desmodesmus subspicatus	20 mg/l, 72 h EU C.3
Crustacea	EC50	Daphnia magna	2.8 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	1.3 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	680 mg/l, 3 h EU C.11
Chronic			
Crustacea	NOEC	Daphnia magna	0.14 mg/l, 21 d OECD 202
Fish	NOEC	Pimephales promelas	0.11 mg/l, 34 d OECD 210
DLUENE-2,5-DIAMIN	IE (CAS 95-70-5)		
Aquatic			
Acute	F0-2		4.00
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			

Persistence and degradability

MINERAL OIL

Biodegradability

Percent degradation (Aerobic biodegradation)

4-AMINO-2-HYDROXYTOLUENE 0 % OECD 301 B

Result: Not Readily Biodegradable

Test Duration: 28 d

Result: Not Biodegradable 6-HYDROXYINDOLE **ETHANOLAMINE** > 90 % OECD 301 A

Result: Readily Biodegradable

Test Duration: 21 d

HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL 0 - 16 % OECD 301 B

Result: Not Readily Biodegradable

Test Duration: 28 d 31 % OECD 301 F

Result: Not Readily Biodegradable

14.3 % OECD 301B

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

Result: Not Readilby Biodegradable

Test Duration: 28 d

Biodegradability

Percent degradation (Aerobic biodegradation)

SODIUM LAURYL SULFATE 93 % EU C.4-C

Result: Readily Biodegradable

Test Duration: 28 d

TOLUENE-2,5-DIAMINE 17 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d

Percent degradation (Aerobic biodegradation-inherent)

DECYL GLUCOSIDE 100 % OECD 301 E

Result: Readily Biodegradable

Test Duration: 28 d

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

4-AMINO-2-HYDROXYTOLUENE -0.53 EU A.8

0.53 OECD 117
6-HYDROXYINDOLE 1.46 EU A.8
ETHANOLAMINE -2.3 OECD 107
HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL 0.412, OECD 117

M-AMINOPHENOL 5.6 N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE -2.8

SULFATE

-2.8 OECD 107

P-AMINOPHENOL 0.25

SODIUM LAURYL SULFATE -2.1 OECD 107 TOLUENE-2,5-DIAMINE -0.321 OECD 107

Bioconcentration factor (BCF)

P-AMINOPHENOL 10 - 46 OECD 305 C

Bioaccumulation

ETHANOLAMINE 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 instructionsCollect 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 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

UN number UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE), Limited Quantity

Class 8 Packing group III

Transport hazard class(es)

Label(s) Limited Quantity

Packaging exceptions 154

BULK

UN number UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE)

Class

Packing group III
Transport hazard class(es)

Label(s) 8

Special provisions IB3, T7, TP1, TP28

Packaging non bulk 203

IATA

FINISHED GOODS

UN number UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE)

Class 8
Packing group III
Transport hazard class(es)

Label(s) Class 8, Limited Quantity

ERG Number 8L

BULK

UN number UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE)

Class 8
Packing group III
ERG Number 8L

IMDG

FINISHED GOODS

UN number UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE), Limited Quantity

Class 8
Packing group III

Environmental Hazards

Marine pollutant No.
Transport hazard class(es)

Label(s) Limited Quantity

EmS F-A, S-B **LTD QTY Net Inner Capacity** 5.00 L

BULK

UN number UN1760

UN proper shipping name CORROSIVE LIQUID, N.O.S. (ETHANOLAMINE)

Class 8
Packing group III
Environmental hazards

Marine pollutant No. EmS F-A, S-B

15. Regulatory information

US federal regulationsThis 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)

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 No (Exempt)

chemical

SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 TOLUENE-2,5-DIAMINE
 95-70-5
 < 3</td>

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

Not regulated.

(SDWA)

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

Issue date 02-14-2022

Version # 01

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.

Material name: L'ORÉAL PROFESSIONNEL INOA ULTRA PERMANENT HAIR COLOR - GROUP 1

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SDS US