REDKEN

SAFETY DATA SHEET

1. Identification

Product identifier REDKEN COLOR GELS 10 MINUTE COLOR LACQUERS - GROUP 1

Other means of identification

SDS number 38-21-0000078

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 hazardsFlammable liquidsCategory 3Health hazardsSkin corrosion/irritationCategory 1BSerious eye damage/eye irritationCategory 1Sensitization, skinCategory 1A

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Causes severe skin burns and eye damage. May cause an allergic

skin reaction. Causes serious eye damage.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. 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.

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

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. In case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep cool. Store locked up.

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

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	%
ETHANOL		64-17-5	8.19
PEG-4 RAPESEEDAMIDE		85536-23-8	8.13
GLYCERYL LAURYL ETHER		9022-75-7	7
DECETH-3		66455-15-0	6.93
LAURETH-5 CARBOXYLIC ACID		27306-90-7	4.5
AMMONIUM HYDROXIDE		1336-21-6	< 4
HEXYLENE GLYCOL		107-41-5	3
TOLUENE-2,5-DIAMINE		95-70-5	< 2
HYDROXYBENZOMORPHOLINE		26021-57-8	< 2
AMMONIUM BICARBONATE		1066-33-7	< 2
ETHANOLAMINE		141-43-5	< 2
2-METHYLRESORCINOL		608-25-3	< 2
M-AMINOPHENOL		591-27-5	< 2
OLEYL ALCOHOL		68002-94-8	1.1
P-PHENYLENEDIAMINE		106-50-3	≤ 2
P-AMINOPHENOL		123-30-8	< 1
N,N-BIS(2-HYDROXYETHYL)-p-P ENYLENEDIAMINE SULFATE	'H	54381-16-7	≤ 0.8
6-HYDROXYINDOLE		2380-86-1	≤ 0.4
4-AMINO-2-HYDROXYTOLUENE		2835-95-2	≤ 0.3
			•

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

4. First-aid measures

Ingestion

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.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

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.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may Most important symptoms/effects, acute and include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including delayed

blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal 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. 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

Take off all contaminated clothing immediately. 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

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. 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

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Ventilate closed spaces before entering them. 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

Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep out of the reach of children. Keep in an area equipped with sprinklers. 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 f	for Air Contaminants (29 CFR 1910.1000)
Components	Tyna

Components	Туре	Value
AMMONIUM HYDROXIDE (CAS 1336-21-6)	PEL	35 mg/m3
		50 ppm
ETHANOL (CAS 64-17-5)	PEL	1900 mg/m3

US. OSHA Table Z-1 Limits for Air Cont Components	Type	Value	
		1000 ppm	
ETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
P-PHENYLENEDIAMINE (CAS 106-50-3)	PEL	0.1 mg/m3	
US. ACGIH Threshold Limit Values Components	Туре	Value	Form
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	35 ppm	
	TWA	25 ppm	
ETHANOL (CAS 64-17-5)	STEL	1000 ppm	
ETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
HEXYLENE GLYCOL (CAS 107-41-5)	STEL	10 mg/m3	Aerosol, inhalable.
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction
P-PHENYLENEDIAMINE (CAS 106-50-3)	TWA	0.1 mg/m3	
US. NIOSH: Pocket Guide to Chemical I	Hazards Type	Value	
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	27 mg/m3	
,		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
ETHANOL (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
ETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
HEXYLENE GLYCOL (CAS 107-41-5)	Ceiling	125 mg/m3	
		25 ppm	
P-PHENYLENEDIAMINE (CAS 106-50-3)	TWA	0.1 mg/m3	
US. Workplace Environmental Exposur Components	e Level (WEEL) Guid Type	es Value	
TOLUENE-2,5-DIAMINE	TWA	0.025 mg/m3	
(CAS 95-70-5)		0.005 ppm	
ogical limit values No biologi	cal exposure limits not	ted for the ingredient(s).	
osure guidelines			
US - California OELs: Skin designation P-PHENYLENEDIAMINE (CAS 106-5	50-3)	Can be absorbed through the skin.	
US - Minnesota Haz Subs: Skin designa	auon applies		

US - Tennessee OELs: Skin designation

P-PHENYLENEDIAMINE (CAS 106-50-3)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

P-PHENYLENEDIAMINE (CAS 106-50-3)

Can be absorbed through the skin.

US WEEL Guides: Skin designation

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

Can be absorbed through the skin.

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

P-PHENYLENEDIAMINE (CAS 106-50-3)

Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. 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

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. If engineering controls do not maintain airborne

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be

worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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 Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling

> 212 °F (> 100 °C)

range

Flash point 105.8 °F (41.0 °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 Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive.

Fire point > 212.00 °F (> 100.00 °C) ISO 2592

Oxidizing properties Not 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. 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 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

REDKEN COLOR GELS 10 MINUTE COLOR LACQUERS - GROUP 1

<u>Acute</u> Dermal

ATEmix 8930 mg/kg

Oral

ATEmix 1424 mg/kg

1422 mg/kg

Components Species Test Results

2-METHYLRESORCINOL (CAS 608-25-3)

Acute Oral

LC50 Rat 200 mg/kg

Components Species Test Results

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

<u>Acute</u>

Oral

LD50 Rat 3600 mg/kg

6-HYDROXYINDOLE (CAS 2380-86-1)

Acute Dermal

LD50 Rat > 2000 mg/kg OECD 402

Inhalation

Aerosol

LC50 Rat > 2000 mg/m3, 4 h OECD 403

Oral

LD50 Rat 600 - 1200 mg/kg

AMMONIUM BICARBONATE (CAS 1066-33-7)

Acute

Dermal

LD50 Rat > 2000 mg/kg OECD 434

Inhalation

Aerosol

LC50 Rat > 4.74 mg/l, 4.5 EPA OTS 798.1150

Oral

LD50 Rat 1576 mg/kg OECD 401

AMMONIUM HYDROXIDE (CAS 1336-21-6)

<u>Acute</u>

Inhalation

LC50 Rat 11590 mg/l, 1 h

Oral

LD50 Rat 350 mg/kg bw OECD 401

DECETH-3 (CAS 66455-15-0)

Acute

Dermal

LD50 Rat > 2000 mg/kg Based on test data for

structurally similar materials.

Oral

LD50 Rat > 2000 mg/kg Based on test data for

structurally similar materials.

ETHANOL (CAS 64-17-5)

Acute

Dermal

LD50 Rabbit > 20000 mg/kg

Inhalation

Vapor

LC50 Rat 124.7 mg/l, 4 h OECD 403

Oral

LD50 Rat 10470 mg/kg OECD 401

ETHANOLAMINE (CAS 141-43-5)

Acute

Dermal

LD50 Rabbit 2504 mg/kg OECD 402

Components		Species	Test Results
Inhala			
Vapor		D.4	
LC50		Rat	> 1.3 mg/l, 6 h
Oral LD50		Rat	1515 mg/kg OECD 401
	URYL ETHER (CAS 9		1313 Hg/kg OEGD 401
Acute	·	9022-1 3-1)	
Derma			
LD50		Rat	> 2000 mg/l OECD 402
Oral			
LD50		Rat	> 2000 mg/l OECD 423
HEXYLENE GLY	YCOL (CAS 107-41-5	5)	
<u>Acute</u>			
Derma	ıl		
LD50		Rat	> 2000 mg/kg OECD 402
Inhala	tion	5.	
LC50		Rat	> 60 ml/m3 air, 8 h OECD 403
Oral		Det	> 2000 mg/kg OFOD 400
LD50	70M0DDU0UNE (0	Rat	> 2000 mg/kg OECD 420
	ZOMORPHOLINE (C	AS 20021-57-8)	
<u>Acute</u> Oral			
LD50		Rat	1000 - 2000 mg/kg OECD 401
	RBOXYLIC ACID (C		5 5
Acute		,	
Oral			
LD50		Rat	> 2000 mg/kg OECD 401
M-AMINOPHEN	IOL (CAS 591-27-5)		
<u>Acute</u>			
Inhala	tion	_	
LC50		Rat	1162 mg/m3
Oral		D. (004 #
LD50	DOMETING A DUE	Rat	924 mg/kg
		ENYLENEDIAMINE SULFATE (CAS 54381-16-7)	
<u>Acute</u> Derma			
LD50	••	-	428 mg/kg
Inhala	tion		3 3
LC50		-	0.9 mg/l, 4 h
Oral			
LD50		Rat	264 mg/kg
OLEYL ALCOH	OL (CAS 68002-94-8)	
<u>Acute</u>			
Derma	ıl		
LD50		Rabbit	8000 mg/kg Based on test data for
Oral			structurally similar materials.
Oral LD50		Rat	> 2000 mg/kg OECD 401
LDOU		1 104	2000 mg/ng OLOD TO

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

PEG-4 RAPESEEDAMIDE (CAS 85536-23-8)

<u>Acute</u> Dermal

LD50 Rat > 2000 mg/kg OECD 402

Inhalation

LC50 Rat 6 mg/L air, 4 h OECD 436

Oral

LD50 Rat > 2000 mg/kg OECD 401

P-PHENYLENEDIAMINE (CAS 106-50-3)

Acute Dermal

LD50 Rabbit > 7940 mg/kg

Inhalation

Vapor or aerosol

LC50 Rat 0.92 mg/l, 4 Hours

Oral

LD50 Rat 80 - 100 mg/kg bw

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

GLYCERYL LAURYL ETHER OECD 404

> Result: Corrosive Species: Rabbit

OECD 404 AMMONIUM HYDROXIDE

Result: Corrosive Species: Rat

PEG-4 RAPESEEDAMIDE **OECD 404**

Result: Irritating Species: Rabbit

6-HYDROXYINDOLE **OECD 404**

> Result: Not Irritating Species: Rabbit

ETHANOL OECD 404

> Result: Not Irritating Species: Rabbit

Irritation Corrosion - Skin

HYDROXYBENZOMORPHOLINE OECD 404

Result: Not Irritating Species: Rabbit

M-AMINOPHENOL OECD 404

Result: Not Irritating Species: Rabbit

2-METHYLRESORCINOL

OECD 404 Result: Slightly Irritating

Species: Rabbit

LAURETH-5 CARBOXYLIC ACID

Result: Slightly Irritating

Species: Rabbit

DECETH-3 OECD 404, Based on test data for structurally similar

materials.

OECD 404

Result: Slightly Irritating

Species: Rabbit

HEXYLENE GLYCOL OECD 405

Result: Slightly irritating

Species: Rabbit

AMMONIUM BICARBONATE OECD 431

Result: Not Irritating Species: EPISKIN

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

NE SULFATE 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

P-PHENYLENEDIAMINE Result: Not Irritating

Species: Guinea pig
OLEYL ALCOHOL Result: Slightly Irritating

Species: Rabbit

P-AMINOPHENOL Result: Slightly Irritating

Species: Rabbit

Serious eye damage/eye Causes serious eye damage.

irritation

Irritation Corrosion - Eye

P-AMINOPHENOL EPA OPPTS 870.2400

Result: Slightly Irritating

Species: Rabbit

AMMONIUM BICARBONATE EPA OTS 798.4500, Based on test data for structurally similar materials.

Result: Not Irritating
Species: Rabbit

2-METHYLRESORCINOL OECD 405

Result: Corrosive Species: Rabbit

6-HYDROXYINDOLE OECD 405

Result: Corrosive Species: Rabbit

ETHANOLAMINE OECD 405

Result: Corrosive Species: Rabbit

LAURETH-5 CARBOXYLIC ACID OECD 405

Result: Corrosive Species: Rabbit

TOLUENE-2,5-DIAMINE OECD 405

Result: Corrosive Species: Rabbit

ETHANOL OECD 405

Result: Irritating Species: Rabbit

Irritation Corrosion - Eye

P-PHENYLENEDIAMINE **OFCD 405**

> Result: Irritating Species: Rabbit

M-AMINOPHENOL **OECD 405**

> Result: Not Irritating Species: Rabbit

OECD 405

HEXYLENE GLYCOL

Result: Slightly irritating

Species: Rabbit

OECD 405 PEG-4 RAPESEEDAMIDE

Result: Slightly Irritating

Species: Rabbit

OECD 405, OECD 405 **HYDROXYBENZOMORPHOLINE**

Result: Irritating Species: Rabbit

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

Result: Irritating **NE SULFATE**

Species: In vitro

OECD 492 4-AMINO-2-HYDROXYTOLUENE

Result: Not Irritating Species: RhCE

AMMONIUM HYDROXIDE Result: Corrosive GLYCERYL LAURYL ETHER Result: Corrosive DECETH-3 Result: Corrosive

Species: Rabbit Result: Irritating HEXYLENE GLYCOL Species: Human

Result: Not Irritating **OLEYL ALCOHOL** Species: Rabbit

Respiratory or skin sensitization

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

May cause an allergic skin reaction. Skin sensitization

Skin sensitization

AMMONIUM BICARBONATE EPA 540/9-82-025, Based on test data for structurally similar

materials.

Result: Not Sensitzing Species: Guinea pig

OECD 406 ETHANOL

Result: Not Sensitizing Species: Guinea pig

GLYCERYL LAURYL ETHER **OECD 406**

Result: Not Sensitizing Species: Guinea pig

HEXYLENE GLYCOL **OECD 406**

Result: Not Sensitizing Species: Guinea pig

HYDROXYBENZOMORPHOLINE OECD 406

> Result: Not sensitizing Species: Guinea pig

LAURETH-5 CARBOXYLIC ACID **OECD 406**

> Result: Not Sensitizing Species: Guinea pig

OECD 406 PEG-4 RAPESEEDAMIDE

> Result: Not Sensitizing Species: Guinea pig

P-AMINOPHENOL **OECD 406**

Result: Sensitizing

Species: Guinea pig

DECETH-3 OECD 406, Based on test data for structurally similar

materials.

Result: Not Sensitizing Species: Guinea pig

OECD 429 2-METHYLRESORCINOL

Result: Sensitizing Species: Mouse

Skin sensitization

4-AMINO-2-HYDROXYTOLUENE **OFCD 429**

> Result: Sensitizing Species: Mouse

6-HYDROXYINDOLE **OECD 429**

> Result: Sensitizina Species: Mouse

M-AMINOPHENOL **OECD 429**

> Result: Sensitizing Species: Mouse

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

NE SULFATE Result: Sensitizing

Species: Mouse

P-PHENYLENEDIAMINE **OECD 429**

Result: Sensitizing Species: Mouse

TOLUENE-2,5-DIAMINE OECD 429

> Result: Sensitizing Species: Mouse

Result: Not Sensitizing **ETHANOLAMINE**

Species: Guinea pig

Result: Not Sensitizing OLEYL ALCOHOL

Species: Rabbit

Result: Not Sensitzing AMMONIUM HYDROXIDE

Species: Guinea pig

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

Mutagenicity

ETHANOL 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.

OLEYL ALCOHOL 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.

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

AMMONIUM BICARBONATE Result: In vitro tests did not show mutagenic effects AMMONIUM HYDROXIDE Result: In vitro tests did not show mutagenic effects DECETH-3 Result: In vitro tests did not show mutagenic effects GLYCERYL LAURYL ETHER Result: In vitro tests did not show mutagenic effects Result: In vitro tests did not show mutagenic effects HEXYLENE GLYCOL LAURETH-5 CARBOXYLIC ACID Result: In vitro tests did not show mutagenic effects

2-METHYLRESORCINOL Result: In vitro tests showed mutagenic effects which were

not observed with in vivo test.

HYDROXYBENZOMORPHOLINE Result: In vitro tests showed mutagenic effects which were

not observed with in vivo test.

Result: In vitro tests showed mutagenic effects which were M-AMINOPHENOL

not observed with in vivo test.

Result: In vitro tests showed mutagenic effects which were P-PHENYLENEDIAMINE

not observed with in vivo test.

Result: In vitro tests showed mutagenic effects which were **TOLUENE-2,5-DIAMINE** 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. Due to partial or complete lack of data the

classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

P-PHENYLENEDIAMINE (CAS 106-50-3) 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 Possible reproductive hazard.

Developmental effects

ETHANOL > 20000 ppm OECD 414, No effects on development

Result: NOAEL Species: Rat

AMMONIUM BICARBONATE > 340 mg/kg bw/d

Result: NOAEL Species: Rat

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

Result: NOAEL Species: Rat

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

NE SULFATE

Result: NOAEL

Species: Rat

P-PHENYLENEDIAMINE 10 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

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

Result: NOAEL Species: Rat

OLEYL ALCOHOL 2000 mg/kg bw/d OECD 422

Result: NOAEL Species: Rat

HEXYLENE GLYCOL 300 mg/kg bw/d OECD 414

Result: NOAEL Species: Rat

2-METHYLRESORCINOL 400 mg/kg bw/d OECD 414

Result: NOAEL Species: Rat

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

similar materials. Result: NOAEL Species: Rat 50 mg/kg bw/d

6-HYDROXYINDOLE 50 mg/kg bw/d Result: NOAEL

Species: Rat

HYDROXYBENZOMORPHOLINE 500 mg/kg bw/d OECD 414, No effects on development

Result: NOAEL Species: Rat

PEG-4 RAPESEEDAMIDE 500 mg/kg bw/d OECD 421, No effects on development

Result: NOEL Species: Rat

GLYCERYL LAURYL ETHER 600 mg/kg bw/d OECD 421

Result: NOAEL

Species: Rat

Reproductivity

TOLUENE-2,5-DIAMINE >= 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

HEXYLENE GLYCOL 1000 mg/kg bw/d OECD 421

Result: NOEL Species: Rat

Reproductivity

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

NE SULFATE Result: NOAEL

Species: Rat Test Duration: 90 d

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

Result: NOAEL Species: Rat

2000 mg/kg bw/d OECD 422 OLEYL ALCOHOL

Result: NOAEL Species: Rat

ETHANOL 20700 mg/kg bw/d OECD 416, No effects on fertility

Result: NOAEL Species: Rat

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

Result: NOAEL Species: Rat

500 mg/kg bw/d OECD 421, No effects on fertility PEG-4 RAPESEEDAMIDE

Result: NOEL Species: Rat

600 mg/kg bw/d OECD 421 GLYCERYL LAURYL ETHER

Result: NOAEL Species: Rat

Due to partial or complete lack of data the classification is not possible. Specific target organ toxicity -

single exposure

AMMONIUM HYDROXIDE Result: Highly Irritating

Specific target organ toxicity -Due to partial or complete lack of data the classification is not possible.

repeated exposure

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

DECETH-3 100 mg/kg bw/d OECD 407, Based on test data for structurally

similar materials. Result: NOAEL Species: Rat Test Duration: 28 d

100 mg/kg bw/d OECD 408 2-METHYLRESORCINOL

Result: NOAEL Species: Rat Test Duration: 90 d

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

Result: NOAEL Species: Rat Test Duration: 90 d

125 mg/kg bw/d OECD 408 **HYDROXYBENZOMORPHOLINE**

Result: NOAEL Species: Rat Test Duration: 90 d

GLYCERYL LAURYL ETHER 150 mg/kg bw/d OECD 407

Result: NOAEL Species: Rat Test Duration: 28 d

PEG-4 RAPESEEDAMIDE 150 mg/kg bw/d OECD 407, Oral

Result: NOAEL Species: Rat

ETHANOLAMINE 150 mg/m3 air OECD 412, Inhalation

> Result: NOAEC Species: Rat Test Duration: 28 d

Material name: REDKEN COLOR GELS 10 MINUTE COLOR LACQUERS - GROUP 1

Specific target organ toxicity -

repeated exposure

P-PHENYLENEDIAMINE 16 mg/kg bw/d OECD 408

Result: NOAEL Species: Rat Test Duration: 90 d

AMMONIUM BICARBONATE 1695.7 mg/kg bw/d OECD 408, Based on test data for

structurally similar materials.

Result: NOAEL Species: Rat Test Duration: 90 d

ETHANOL 1730 mg/kg bw/d OECD 408, Oral

Result: NOAEL Species: Rat

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

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

Result: NOAEL Species: Rat

HEXYLENE GLYCOL 450 mg/kg bw/d OECD 408, Oral

Result: NOAEL Species: Rat

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

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
2-METHYLRESORCII	NOL (CAS 608-25-3	3)	
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	71 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.605 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	58.1 mg/l, 96 h
Other	EC50	Activated sludge of a predominantly domestic sewage	131 mg/l, 3 h OECD 209
4-AMINO-2-HYDROX	YTOLUENE (CAS	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

Components		Species	Test Results
Chronic	NO.	5	
Crustacea	NOEC	Daphnia magna	0.24 mg/l, 21 d OECD 211
6-HYDROXYINDOLE	(CAS 2380-86-1)		
Acute			
Aquatic			
<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
AMMONIUM BICARBO	ONATE (CAS 1066	-33-7)	
Aquatic			
Acute			
Algae	EC50	Chlorella vulgaris	1921 mg/l, 5 d
Crustacea	EC50	Daphnia magna	202 mg/l, 48 h
Fish	LC50	Oncorhynchus mykiss	63.4 mg/l, 96 h
Other	EC50	Pseudomonas putida	1895 mg/l, 16 h DIN 38412, Part 8
Chronic			
Algae	EC10	Hyalella azteca	3.7 mg/l, 10 wk
Fish	EC10	Lepomis macrochirus	6.3 mg/l, 30 d
AMMONIUM HYDROX	(IDE (CAS 1336-21	-6)	
Aquatic			
Acute			
Algae	EC50	Chlorella vulgaris	2700 mg/l, 18 d
Crustacea	EC50	Daphnia magna	101 mg/l, 48 h ASTM E729-80
Fish	LC50	Oncorhynchus mykiss	0.89 mg/l, 96 h
Chronic			
Crustacea	NOEC	Daphnia magna	0.79 mg/l, 21 d
Fish	NOEC	Oncorhynchus mykiss	1.2 mg/l, 61 d OECD 210
DECETH-3 (CAS 6645	55-15-0)		
Aquatic			
Acute			
Algae	EC50	Desmodesmus subspicatus	1.8 mg/l, 72 h 92/69/EWG
Crustacea	EC50	Daphnia magna	0.39 mg/l, 48 h 92/69/EWG
Fish	LC50	Cyprinus carpio	1.2 mg/l, 96 h EU C.1
Other	EC0	Activated sludge of a predominantly domestic sewage	140 mg/l, 3 h 88/302/EG
Chronic		9-	
Crustacea	NOEC	Daphnia magna	<= 1 mg/l, 21 d
Fish	NOEC	Lepomis macrochirus	0.16 mg/l, 10 d
ETHANOL (CAS 64-17	7-5)		
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	22200 mg/l, 96 h
Crustacea	EC50	Ceriodaphnia dubia	5012 mg/l, 48 h
Fish	LC50	Pimephales promelas	15300 mg/l, 96 h
Other	IC50	Activated sludge of a predominantly	> 1000 mg/l, 3 h
		domestic sewage	-

01			
Chronic			
Crustacea	NOEC	Daphnia magna	9.6 mg/l, 9 d
Fish	NOEC	Danio rerio	250 mg/l, 120 h OECD 212
ETHANOLAMINE (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			
Crustacea	NOEC	Daphnia magna	0.85 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes	1.24 mg/l, 41 d OECD 210
GLYCERYL LAURYL ET	THER (CAS 9022-	-75-7)	
Aquatic			
Acute	F050	5 11	4.44 # 70 0505 651
Algae	EC50	Pseudokirchneriella subcapitata	1.11 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.875 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	1.61 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	31.6 mg/l, 3 h OECD 209
Chronic			
Crustacea	NOEC	Daphnia magna	0.036 mg/l, 21 d OECD 211
Fish	NOEC	Danio rerio	0.086 mg/l, 30 d OECD 210
HEXYLENE GLYCOL (C	CAS 107-41-5)		
Aquatic			
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	> 429 mg/l, 72 hours OECD 201
Crustacea	EC50	Daphnia magna	5410 mg/l, 48 hours OECD 202
Fish	LC50	Pimephales promelas	10700 mg/l, 96 hours OECD 203
Other	NOEC	Pseudomonas aeruginosa	200 mg/l, 10 days
LAURETH-5 CARBOXY	LIC ACID (CAS 2	7306-90-7)	
Aquatic <i>Acute</i>			
Fish	LC50	Oncorhynchus mykiss	7.5 mg/l, 96 h
M-AMINOPHENOL (CAS	S 591-27-5)		
Acute			
Other	IC50	Tetrahymena pyriformis	361 mg/l, 40 h
Aquatic			
Acute			
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			
Crustacea	NOEC	Daphnia magna	0.05 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes	25 mg/l, 25 d OECD 204

Components **Species Test Results** N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE (CAS 54381-16-7) Aquatic Acute EC50 Algae 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 228 mg/l, 3 h OECD 209 domestic sewage Chronic NOEC 0.674 mg/l, 21 d OECD 211 Crustacea Daphnia magna OLEYL ALCOHOL (CAS 68002-94-8) Aquatic Acute EC50 250 mg/l OECD 201 Algae Algae Fish LC50 Fish > 1000 mg/I OECD 203 P-AMINOPHENOL (CAS 123-30-8) Aquatic Acute EC50 Algae 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 29.9 mg/l, 3 h OECD 209 domestic sewage PEG-4 RAPESEEDAMIDE (CAS 85536-23-8) Aquatic Acute EC50 Algae Desmodesmus subspicatus 410 mg/l, 72 h OECD 201 Crustacea EC50 Daphnia magna 3.8 mg/l, 48 h OECD 202 2.9 mg/l, 96 h OECD 203 Fish LC50 Oncorhynchus mykiss > 1000 mg/l, 3 h OECD 209 Other EC50 Activated sludge of a predominantly domestic sewage Chronic

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

P-PHENYLENEDIAMINE (CAS 106-50-3)

Crustacea

Aquatic Acute

Algae Crustacea

Fish

Other

Acute EC50 Pseudokirchneriella subcapitata Algae 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 3.75 mg/l, 3 h OECD 209

Pseudokirchneriella subcapitata

Activated sludge of a predominantly

Daphnia magna

Daphnia magna

domestic sewage

domestic sewage

Oncorhynchus mykiss

Material name: REDKEN COLOR GELS 10 MINUTE COLOR LACQUERS - GROUP 1 44486 Version #: 02 Revision date: 08-19-2021 Issue date: 05-06-2021

NOEC

EC50

EC50

LC50

EC50

0.39 mg/l, 21 d OECD 211

0.27 mg/l, 72 h OECD 201

0.33 mg/l, 48 h OECD 202

3.9 mg/l, 96 h OECD 203

13.4 mg/l, 3 h OECD 209

Components Species Test Results

Chronic

Algae NOEC Pseudokirchneriella subcapitata 0.11 mg/l, 72 h OECD 201

Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

2-METHYLRESORCINOL 64 % OECD 301 B

Result: Readily Biodegradable

Test Duration: 28 d

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

Result: Not Readily Biodegradable

Test Duration: 28 d
6-HYDROXYINDOLE Result: Not Biodegradable

DECETH-3 78 % OECD 301 B

Result: Readily Biodegradable

Test Duration: 28 d

ETHANOL 84 %

Result: Readily Biodegradable

Test Duration: 20 d

ETHANOLAMINE > 90 % OECD 301 A

Result: Readily Biodegradable Test Duration: 21 d

GLYCERYL LAURYL ETHER 88 % OECD 301 B

Result: Readily Biodegradable

HEXYLENE GLYCOL 81 % OECD 301 F

Result: Readily biodegradable

Test Duration: 28 d

LAURETH-5 CARBOXYLIC ACID 78 % OECD 301 B

Result: Readily Biodegradable

Test Duration: 28 d

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

SULFATE

14.3 % OECD 301B

Result: Not Readilby Biodegradable

Test Duration: 28 d OLEYL ALCOHOL 87 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d

PEG-4 RAPESEEDAMIDE 96 % OECD 203

Result: Readily Biodegradable

Test Duration: 28 d 28 - 30 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d

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

Result: Not Readily Biodegradable

Test Duration: 28 d

Bioaccumulative potential

6-HYDROXYINDOLE

P-PHENYLENEDIAMINE

Partition coefficient n-octanol / water (log Kow)

4-AMINO-2-HYDROXYTOLUENE -0.53 EU A.8 0.53 OECD 117

1.46 EU A.8

ETHANOL -0.31

-2.3 OECD 107 3.79 - 4.25

GLYCERYL LAURYL ETHER 3.79 - 4
HYDROXYBENZOMORPHOLINE 0.22
M-AMINOPHENOL 0.21
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE -2.8

SULFATE

ETHANOLAMINE

-2.8 OECD 107

P-AMINOPHENOL 0.25
PEG-4 RAPESEEDAMIDE 5
P-PHENYLENEDIAMINE -0.25

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 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.

Hazardous waste code This product is ignitable (D001) RCRA hazardous wastes when intended for disposal.

Waste from residues / unusedDispose of in accordance with local regulations. Empty containers or liners may retain some products

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. (AMMONIUM HYDROXIDE, 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. (AMMONIUM HYDROXIDE, ETHANOLAMINE), MARINE

POLLUTANT (P-PHENYLENEDIAMINE)

Class 8
Packing group III

Environmental hazards

Marine pollutant Yes

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. (AMMONIUM HYDROXIDE, ETHANOLAMINE)

Class 8
Packing group III

Transport hazard class(es)

Label(s) Class 8, Limited Quantity

ERG Number 81

BULK

UN number UN1760

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

Class 8
Packing group III

Environmental hazards

Marine pollutant Yes ERG Number 8L

IMDG

FINISHED GOODS

UN number UN1760

Olt Hulliber

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

POLLUTANT (P-PHENYLENEDIAMINE)

Class 8
Packing group III

Environmental hazards

Marine pollutant Yes EmS F-A, S-B

General information IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant. In accordance with

international transport regulations products associated with this document have been determined to have a flash point greater than 35°C and fire point greater than 100°C, therefore these materials

are exempt from flammable liquid transport regulations.

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)

AMMONIUM BICARBONATE (CAS 1066-33-7) Listed.
AMMONIUM HYDROXIDE (CAS 1336-21-6) Listed.
ETHANOL (CAS 64-17-5) Listed.
P-PHENYLENEDIAMINE (CAS 106-50-3) 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 No (Exempt)

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
AMMONIUM BICARBONATE	1066-33-7	< 2	
AMMONIUM HYDROXIDE	1336-21-6	< 4	
P-PHENYLENEDIAMINE	106-50-3	≤ 2	
TOLUENE-2,5-DIAMINE	95-70-5	< 2	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

P-PHENYLENEDIAMINE (CAS 106-50-3)

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

ETHANOL (CAS 64-17-5) Low priority

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

 Issue date
 05-06-2021

 Revision date
 08-19-2021

Version # 02

NFPA ratings Health: 3

Flammability: 2 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

Composition / Information on Ingredients: Ingredients

Material name: REDKEN COLOR GELS 10 MINUTE COLOR LACQUERS - GROUP 1

44486 Version #: 02 Revision date: 08-19-2021 Issue date: 05-06-2021 22 / 22