# SAFETY DATA SHEET



#### 1. Identification

**Product identifier** MATRIX SOCOLOR.BEAUTY PERMAMENT CREAM HAIR COLOR - GROUP 1

Other means of identification

SDS number 80-21-0000225

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 1B

> Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1A Reproductive toxicity Category 2

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

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

eye damage. Suspected of damaging fertility or the unborn child.

**Precautionary statement** 

Obtain special instructions before use. Do not handle until all safety precautions have been read Prevention

and understood. 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: MATRIX SOCOLOR.BEAUTY PERMAMENT CREAM HAIR COLOR - GROUP 1

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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.

Storage 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	%
AMMONIUM HYDROXIDE		1336-21-6	< 6
DECETH-3		66455-15-0	≤ 9
LAURETH-12		68439-50-9	≤ 7
OLEYL ALCOHOL		68002-94-8	< 3
TOLUENE-2,5-DIAMINE		95-70-5	< 2
2,4-DIAMINOPHENOXYETHANOL HCL		66422-95-5	< 2
RESORCINOL		108-46-3	< 2
P-AMINOPHENOL		123-30-8	< 2
4-AMINO-2-HYDROXYTOLUENE		2835-95-2	< 2
SILICA DIMETHYL SILYLATE		68611-44-9	< 2
ETHANOLAMINE		141-43-5	< 2
M-AMINOPHENOL		591-27-5	< 0.7
N,N-BIS(2-HYDROXYETHYL)-p-PI ENYLENEDIAMINE SULFATE	1	54381-16-7	< 0.6
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE		155601-30-2	≤ 1
1-NAPHTHOL		90-15-3	≤ 1
P-PHENYLENEDIAMINE		106-50-3	< 0.5
PENTASODIUM PENTETATE		140-01-2	≤ 0.8
6-HYDROXYINDOLE		2380-86-1	< 0.2

<sup>\*</sup>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.

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician Skin contact

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

contaminated clothing before reuse.

Eve 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.

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.

Most important symptoms/effects, acute and

Ingestion

delayed

Indication of immediate medical attention and special treatment needed

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.

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.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice **General information** (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefight

equipment/instructions

Move containers from fire area if you can do so without risk.

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

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. 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

Use water spray to reduce vapors or divert vapor cloud drift. 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. 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

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. 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	Туре	Value	
AMMONIUM HYDROXIDE (CAS 1336-21-6)	PEL	35 mg/m3	
		50 ppm	
ETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
P-PHENYLENEDIAMINE (CAS 106-50-3)	PEL	0.1 mg/m3	

US. OSHA Table Z-3 (29 CFR 1910 Components	<sup>´</sup> Type	Value	
SILICA DIMETHYL SILYLATE (CAS 8611-44-9)	TWA	0.8 mg/m3	
,		20 mppcf	
JS. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
AMMONIUM HYDROXIDE CAS 1336-21-6)	STEL	35 ppm	
	TWA	25 ppm	
ETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
P-PHENYLENEDIAMINE (CAS 106-50-3)	TWA	0.1 mg/m3	
RESORCINOL (CAS 108-46-3)	STEL	20 ppm	
	TWA	10 ppm	
JS. NIOSH: Pocket Guide to Cher			
Components	Туре	Value	
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	27 mg/m3	
		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
ETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
P-PHENYLENEDIAMINE CAS 106-50-3)	TWA	0.1 mg/m3	
RESORCINOL (CAS 108-46-3)	STEL	90 mg/m3	
		20 ppm	
	TWA	45 mg/m3	
		10 ppm	
JS. Workplace Environmental Ex Components	posure Level (WEEL) Guides Type	Value	
FOLUENE-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 - California OELs: Skin designation

P-PHENYLENEDIAMINE (CAS 106-50-3)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

P-PHENYLENEDIAMINE (CAS 106-50-3) Skin designation 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

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. Chemical respirator with organic vapor cartridge and full

facepiece.

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. Chemical respirator with organic vapor cartridge and full Respiratory protection

facepiece.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Observe any medical surveillance requirements. 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.

10.5 pН

Melting point/freezing point Not available. > 212 °F (> 100 °C) Initial boiling point and boiling

range

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

**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. Not available.

Vapor pressure Not available. Vapor density Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature Viscosity** Not available. Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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 contact**Causes 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

MATRIX SOCOLOR.BEAUTY PERMAMENT CREAM HAIR COLOR - GROUP 1

Acute Dermal

ATEmix 25990 mg/kg

Oral

ATEmix 2151 mg/kg

Components Species Test Results

#### 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE (CAS 155601-30-2)

Acute

Inhalation

Aerosol

LD50 Rat > 5.24 mg/m3, 4 h OECD 403

Oral

LD50 Rat > 2000 mg/kg OECD 401

1-NAPHTHOL (CAS 90-15-3)

**Acute** 

Dermal

LD50 Rabbit >= 880 mg/kg

Inhalation

Aerosol

LD50 Rat > 420 mg/m³, 1 Hours

Oral

LD50 Rat 1000 - 2000 mg/kg

Components Species Test Results

2,4-DIAMINOPHENOXYETHANOL HCL (CAS 66422-95-5)

<u>Acute</u>

Oral

LD50 Rat 1000 mg/kg OECD 401

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

Inhalation

Aerosol

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

Oral

LD50 Rat 600 - 1200 mg/kg

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.

ETHANOLAMINE (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

LAURETH-12 (CAS 68439-50-9)

Acute Dermal

LD50 Rat > 2000 mg/kg OECD 402

Inhalation

Aerosol

LC50 Rat > 1.6 mg/l, 4 h OECD 403

Oral

LD50 Rat > 2000 mg/kg OECD 401

Components Species Test Results

M-AMINOPHENOL (CAS 591-27-5)

**Acute** 

Inhalation

LC50 Rat 1162 mg/m3

Oral

LD50 Rat 924 mg/kg

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE (CAS 54381-16-7)

<u>Acute</u>

Oral

LD50 Rat 264 mg/kg

OLEYL ALCOHOL (CAS 68002-94-8)

**Acute** 

**Dermal** 

LD50 Rabbit 8000 mg/kg Based on test data for

structurally similar materials.

Oral

LD50 Rat > 2000 mg/kg OECD 401

P-AMINOPHENOL (CAS 123-30-8)

<u>Acute</u>

**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

PENTASODIUM PENTETATE (CAS 140-01-2)

**Acute** 

**Dermal** 

LD50 Rat > 2000 mg/kg OECD 402

Inhalation

Dust

LD50 Rat 1 - 5 mg/l, 4 h

Oral

LD50 Rat > 5000 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

RESORCINOL (CAS 108-46-3)

**Acute** 

Dermal

LD50 Rabbit 2830 mg/kg FHSL Act

Inhalation

Aerosol

LC0 Rat  $> 7800 \text{ mg/m}^3$ , 1 h FHSL Act

**Species Test Results** Components Oral LD50 Rat 510 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 Causes severe skin burns and eye damage. Skin corrosion/irritation Irritation Corrosion - Skin RESORCINOL FHLS Act, (100%) Result: Irritating Species: Rabbit **OECD 404 ETHANOLAMINE** Result: Corrosive Species: Rabbit AMMONIUM HYDROXIDE **OECD 404** Result: Corrosive Species: Rat 2,4-DIAMINOPHENOXYETHANOL HCL OECD 404 Result: Not Irritating Species: Rabbit 6-HYDROXYINDOLE **OECD 404** Result: Not Irritating Species: Rabbit **OECD 404** LAURETH-12 Result: Not Irritating Species: Rabbit **OECD 404** M-AMINOPHENOL Result: Not Irritating Species: Rabbit PENTASODIUM PENTETATE **OECD 404** Result: Not Irritating Species: Rabbit 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE **OECD 404 SULFATE** Result: Slightly Irritating Species: Rabbit RESORCINOL OECD 404, (2.5%) Result: Not Irritating Species: Rabbit DECETH-3 OECD 404, Based on test data for structurally similar materials. Result: Slightly 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 Result: Irritating 1-NAPHTHOL Species: Rabbit Result: Not Irritating P-PHENYLENEDIAMINE Species: Guinea pig **OLEYL ALCOHOL** Result: Slightly Irritating Species: Rabbit

# Irritation Corrosion - Skin

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

**OECD 405** 

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE

SULFATE

**TOLUENE-2,5-DIAMINE** 

Result: Corrosive Species: Rabbit

6-HYDROXYINDOLE **OECD 405** 

Result: Corrosive

Species: Rabbit **ETHANOLAMINE** 

**OECD 405** Result: Corrosive

Species: Rabbit LAURETH-12

**OECD 405** 

Result: Corrosive

Species: Rabbit **OECD 405** 

Result: Corrosive

Species: Rabbit

**OECD 405** 2,4-DIAMINOPHENOXYETHANOL HCL

> Result: Irritating Species: Rabbit

P-PHENYLENEDIAMINE **OECD 405** 

> Result: Irritating Species: Rabbit

M-AMINOPHENOL **OECD 405** 

Result: Not Irritating

Species: Rabbit PENTASODIUM PENTETATE **OECD 405** 

Result: Not Irritating

Species: Rabbit RESORCINOL OECD 405, (2.5%)

Result: Not Irritating

Species: Rabbit

**OECD 438** Result: Corrosive Species: In vitro

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

**NE SULFATE** 

**OLEYL ALCOHOL** 

1-NAPHTHOL

Result: Irritating

Species: In vitro 4-AMINO-2-HYDROXYTOLUENE

**OECD 492** 

Result: Not Irritating

Species: RhCE Result: Corrosive

AMMONIUM HYDROXIDE DECETH-3 Result: Corrosive Species: Rabbit

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

EU Method B.6 - Cat 1 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE

Result: Sensitizing SULFATE

Species: Guinea pig

LAURETH-12 **OECD 406** 

> Result: Not Sensitizing Species: Guinea pig

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Skin sensitization

PENTASODIUM PENTETATE OFCD 406

> Result: Not Sensitizing Species: Guinea pig

P-AMINOPHENOL **OECD 406** 

> Result: Sensitizina Species: Guinea pig

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

materials.

Result: Not Sensitizing Species: Guinea pig

1-NAPHTHOL **OECD 429** 

Result: Sensitizing Species: Mouse

**OECD 429** 2,4-DIAMINOPHENOXYETHANOL HCL

> Result: Sensitizing Species: Mouse

**OECD 429** 4-AMINO-2-HYDROXYTOLUENE

> Result: Sensitizing Species: Mouse

6-HYDROXYINDOLE **OFCD 429** 

Result: Sensitizing

Species: Mouse

Result: Sensitizing Species: Mouse

**OFCD 429** 

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

**NE SULFATE** Result: Sensitizing

Species: Mouse

P-PHENYLENEDIAMINE **OECD 429** 

> Result: Sensitizing Species: Mouse

RESORCINOL **OECD 429** 

Result: Sensitizing Species: Mouse

**OECD 429 TOLUENE-2,5-DIAMINE** 

> Result: Sensitizing Species: Mouse

Result: Not Sensitizing **ETHANOLAMINE** Species: Guinea pig

Result: Not Sensitizing

Species: Rabbit AMMONIUM HYDROXIDE Result: Not Sensitzing

Species: Guinea pig

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

Mutagenicity

LAURETH-12 Result: In vitro and in vivo tests did not show mutagenic

effects.

NE SULFATE

OLEYL ALCOHOL

M-AMINOPHENOL

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

effects.

OLEYL ALCOHOL Result: In vitro and in vivo tests did not show mutagenic

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

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE

2,4-DIAMINOPHENOXYETHANOL HCL

SULFATE

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 PENTASODIUM PENTETATE Result: In vitro tests did not show mutagenic effects

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.

P-PHENYLENEDIAMINE 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.

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Mutagenicity

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

P-PHENYLENEDIAMINE (CAS 106-50-3)
RESORCINOL (CAS 108-46-3)
TOLUENE-2,5-DIAMINE (CAS 95-70-5)
3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.
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** Suspected of damaging fertility or the unborn child.

**Developmental effects** 

LAURETH-12 >= 250 mg/kg bw/d OECD 416

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

PENTASODIUM PENTETATE 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

2.4-DIAMINOPHENOXYETHANOL HCL 20 ma/ka bw/d OECD 414

Result: NOAEL Species: Rat

OLEYL ALCOHOL 2000 mg/kg bw/d OECD 422

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

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 Reproductivity

LAURETH-12 >= 250 mg/kg bw/d OECD 416

Result: NOAEL Species: Rat

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

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

**NE SULFATE** 

**ETHANOLAMINE** 

Result: NOAEL Species: Rat

Test Duration: 90 d

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

Result: NOAEL Species: Rat

OLEYL ALCOHOL 2000 mg/kg bw/d OECD 422

Result: NOAEL Species: Rat

RESORCINOL 245 mg/kg bw/d OECD 416

Result: NOAEL Species: Rat

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE 300 mg/kg bw/d OECD 415

SULFATE

Species: Rat

300 mg/kg bw/d OECD 416

Result: NOAEL Species: Rat

1-NAPHTHOL Result: No Data

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

single exposure

AMMONIUM HYDROXIDE Result: Highly Irritating 1-NAPHTHOL Result: Irritating

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

repeated exposure

PENTASODIUM PENTETATE > 15 mg/m3 air OECD 413, Inhalation

Result: NOAEC Species: Rat

LAURETH-12 >= 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

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

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 Specific target organ toxicity -

repeated exposure

ETHANOLAMINE 150 mg/m3 air OECD 412, Inhalation

Result: NOAEC Species: Rat Test Duration: 28 d

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

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

2,4-DIAMINOPHENOXYETHANOL HCL 20 mg/kg bw/d OECD 408

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

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

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

Result: NOAEL Species: Rat

Species: Rat

PENTASODIUM PENTETATE 75 mg/kg bw/d OECD 407, Oral

Result: NOAEL Species: Rat

RESORCINOL 80 mg/kg bw/d OECD 408, Oral

Result: NOAEL Species: Rat Test Duration: 90 d 991 mg/m³ Result: NOAEC Species: Rat Test Duration: 14 d

**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

**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

Aquatic

Acute

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

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE (CAS 155601-30-2)

Components **Species Test Results** 1-NAPHTHOL (CAS 90-15-3) **Aquatic** Acute EC50 Pseudokirchneriella subcapitata Algae > 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 Chronic Crustacea NOEC 0.25 mg/l, 21 d OECD 211 Daphnia magna 2,4-DIAMINOPHENOXYETHANOL HCL (CAS 66422-95-5) Aquatic Acute EC50 Pseudokirchneriella subcapitata Algae 36.5 mg/l, 72 h OECD 201 Crustacea EC50 Daphnia magna 7.4 mg/l, 48 h OECD 202 4-AMINO-2-HYDROXYTOLUENE (CAS 2835-95-2) Aquatic Acute EC50 Algae 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 > 150 mg/l, 3 h OECD 209 domestic sewage Chronic NOEC Crustacea 0.24 mg/l, 21 d OECD 211 Daphnia magna 6-HYDROXYINDOLE (CAS 2380-86-1) Acute Aquatic Acute Algae Desmodesmus subspicatus 9.1 mg/l, 72 h EC50 Crustacea 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 > 0.9 mg/l, 3 ddomestic sewage AMMONIUM HYDROXIDE (CAS 1336-21-6) Aquatic Acute Algae EC50 Chlorella vulgaris 2700 mg/l, 18 d EC50 Crustacea 101 mg/l, 48 h ASTM E729-80 Daphnia magna Fish LC50 Oncorhynchus mykiss 0.89 mg/l, 96 h Chronic Crustacea NOEC Daphnia magna 0.79 mg/l, 21 d **NOEC** 1.2 mg/l, 61 d OECD 210 Fish Oncorhynchus mykiss DECETH-3 (CAS 66455-15-0) **Aquatic** Acute EC50 Algae 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 140 mg/l, 3 h 88/302/EG domestic sewage

Components		Species	Test Results
Chronic			
Crustacea	NOEC	Daphnia magna	<= 1 mg/l, 21 d
Fish	NOEC	Lepomis macrochirus	0.16 mg/l, 10 d
ETHANOLAMINE (CA	S 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
LAURETH-12 (CAS 68	3439-50-9)		
Aquatic			
Acute	5050	B 11:1 : 11 : 11 : 11	0.00
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
Chronic			
Crustacea	NOEC	Daphnia magna	0.77 mg/l, 21 d
M-AMINOPHENOL (C	AS 591-27-5)		
Acute	1050	<b>+</b>	004 // 401
Other	IC50	Tetrahymena pyriformis	361 mg/l, 40 h
Aquatic			
Acute	EC50	Pseudokirchneriella subcapitata	62 mg/l, 72 h OECD 201
Algae 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	NOTO	Danhais magas	0.05 mg/l 21 d OFCD 211
Crustacea	NOEC	Daphnia magna	0.05 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes	25 mg/l, 25 d OECD 204
	ETHYL)-p-PHENYI	LENEDIAMINE SULFATE (CAS 54381-16-7)	
<b>Aquatic</b> Acute			
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
Chronic	NOFO	Dankeis was an a	0.074
Crustacea	NOEC	Daphnia magna	0.674 mg/l, 21 d OECD 211
OLEYL ALCOHOL (CA	45 68002-94-8)		
Aquatic			
<i>Acute</i> Algae	EC50	Algae	250 mg/l OECD 201
			•
Fish	LC50	Fish	> 1000 mg/l OECD 203

Components		Species	Test Results
P-AMINOPHENOL (CA	AS 123-30-8)		
Aquatic			
Acute	5050	D 11: 1 : 11 : 12 : 12 : 12	
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
PENTASODIUM PENT	ETATE (CAS 140-	01-2)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1005 - 1250 mg/l, 96 hours
Acute			
Crustacea	EC50	Daphnia carinata	245 mg/l, 48 h OECD 202
Fish	NOEC	Oncorhynchus mykiss	1000 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	> 500 mg/l, 30 min OECD 209
Chronic			
Algae	NOEC	Scenedesmus quadricauda	400 mg/l, 23 d
Crustacea	NOEC	Daphnia carinata	67 mg/l, 18 d OECD 211
Fish	NOEC	Melanotaenia fluviatilis	100 mg/l, 28 d
P-PHENYLENEDIAMII	NE (CAS 106-50-3)		
Aquatic	. ,		
Acute			
Algae	EC50	Pseudokirchneriella subcapitata	0.27 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.33 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	3.9 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	13.4 mg/l, 3 h OECD 209
RESORCINOL (CAS 1	08-46-3)		
Aquatic			
Acute			
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
Other		Activated sludge of a predominantly domestic sewage	79 mg/l, 3 h OECD 209
Chronic			
Crustacea	NOEC	Daphnia magna	>= 0.172 mg/l, 21 d
Fish	LOEC	Oncorhynchus mykiss	320 mg/l, 60 d
TOLUENE-2,5-DIAMIN	IE (CAS 95-70-5)		
Aquatic			
Acute			
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
Chronic			
Algae	NOEC	Pseudokirchneriella subcapitata	0.11 mg/l, 72 h OECD 201

Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE 33.3 % EU C.4-E

Result: Not readily biodegradable **SULFATE** 1-NAPHTHOL

> 77.8 % OECD 301 B Result: Readily Biodegradable

Test Duration: 28 d

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

Result: Not Readily Biodegradable

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

78 % OECD 301 B DECETH-3

Result: Readily Biodegradable

Test Duration: 28 d

**ETHANOLAMINE** > 90 % OECD 301 A

Result: Readily Biodegradable

Test Duration: 21 d 95 % OECD 301 F LAURETH-12

Result: Readily Biodegradable

Test Duration: 28 d

14.3 % OECD 301B N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE

Result: Not Readilby Biodegradable SULFATE

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

Result: Not Readily Biodegradable

Test Duration: 28 d

PENTASODIUM PENTETATE 0 % OECD 301 F

Result: Not Readily Biodegradable

Test Duration: 28 d

P-PHENYLENEDIAMINE 28 - 30 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d 66.7 % OECD 301 C

Result: Readily Biodegradable

Test Duration: 14 d

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

Result: Not Readily Biodegradable

Test Duration: 28 d

Bioaccumulative potential

RESORCINOL

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 **ETHANOLAMINE** -2.3 OECD 107 LAURETH-12 6.1 OECD 117

M-AMINOPHENOL 0.21 N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE -2.8

SULFATE

-2.8 OECD 107

P-AMINOPHENOL 0.25 P-PHENYLENEDIAMINE -0.25RESORCINOL 8.0

**TOLUENE-2,5-DIAMINE** -0.321 OECD 107

**Bioconcentration factor (BCF)** 

P-AMINOPHENOL 10 - 46 OECD 305 C

Bioaccumulation

1-NAPHTHOL Result: Bioaccumulation is unlikely **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.

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. (AMMONIUM HYDROXIDE, ETHANOLAMINE), Limited Quantity

Class 8
Packing group ||
Transport hazard class(es)

Label(s) Limited Quantity

Packaging exceptions 154 LTD QTY Net Inner Capacity 1.0 L

**BULK** 

UN number UN1760

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

POLLUTANT (HEXADIMETHRINE CHLORIDE)

Class 8 Packing group II

**Environmental hazards** 

Marine pollutant Yes

Transport hazard class(es)

Label(s) 8

Special provisions B2, IB2, T11, TP2, TP27

Packaging non bulk 202

IATA

**FINISHED GOODS** 

UN number UN1760

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

Class 8
Packing group II

Transport hazard class(es)

Label(s) Class 8, Limited Quantity

ERG Number 8L LTD QTY Net Inner Capacity 0.1 L

**BULK** 

UN number UN1760

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

Class 8
Packing group II
Environmental hazards

Marine pollutant Yes ERG Number 8L

**IMDG** 

**FINISHED GOODS** 

UN number UN1760

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

Class 8 Packing group II **Environmental Hazards** 

Marine pollutant No.

Transport hazard class(es)

Label(s) Limited Quantity

EmS F-A, S-B LTD QTY Net Inner Capacity 1.0 L

**BULK** 

UN number UN1760

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

POLLUTANT (HEXADIMETHRINE CHLORIDE)

Class 8 Packing group II

**Environmental hazards** 

Marine pollutant Yes EmS F-A, S-B

General information IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

## 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)**

AMMONIUM HYDROXIDE (CAS 1336-21-6)

P-PHENYLENEDIAMINE (CAS 106-50-3)

RESORCINOL (CAS 108-46-3)

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 HYDROXIDE	1336-21-6	< 6	
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

Not regulated.

(SDWA)

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

RESORCINOL (CAS 108-46-3) Low priority

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

**Issue date** 12-23-2019

Version # 01

NFPA ratings Health: 3

Flammability: 1 Instability: 0

Material name: MATRIX SOCOLOR.BEAUTY PERMAMENT CREAM HAIR COLOR - GROUP 1

38483 Version #: 01 Issue date: 12-23-2019 20 / 21

#### 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.