## SAFETY DATA SHEET



## 1. Identification

**Product identifier MATRIX SOCOLOR PERMANENT HAIR COLOR - GROUP 5** 

Other means of identification

SDS number 80-21-0000263 Recommended use Not available. **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 1

> Serious eye damage/eye irritation Category 1

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Causes severe skin burns and eye damage. Causes serious eye damage.

**Precautionary statement** 

Do not breathe mist/vapors. Wash thoroughly after handling. Wear protective gloves/protective Prevention

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. Wash contaminated clothing before reuse.

Store locked up. Storage

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

Material name: MATRIX SOCOLOR PERMANENT HAIR COLOR - GROUP 5

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

1.23% of the mixture consists of component(s) of unknown acute oral toxicity. 14.17% of the mixture consists of component(s) of unknown acute dermal toxicity.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
COCAMIDE MEA		68140-00-1	≤ 18
STEARAMIDE MEA		111-57-9	< 6
AMMONIUM HYDROXIDE		1336-21-6	< 5
ETHANOLAMINE		141-43-5	< 2
GLYCERIN		56-81-5	≤ 3
PEG-2 OLEAMINE		26635-93-8	≤ 3
BASIC ORANGE 31		97404-02-9	≤ 0.2
RESORCINOL	·	108-46-3	≤ 0.1

<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.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. 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.

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.

## 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

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

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

equipment/instructions 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.

Material name: MATRIX SOCOLOR PERMANENT HAIR COLOR - GROUP 5

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# Methods and materials for containment and cleaning up

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**

## 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 exposure. 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.

Avoid discharge into drains, water courses or onto the ground.

Components	Туре	Value	Form
AMMONIUM HYDROXIDE (CAS 1336-21-6)	PEL	35 mg/m3	
		50 ppm	
ETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
GLYCERIN (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Values			
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	
RESORCINOL (CAS 108-46-3)	STEL	20 ppm	
	TWA	10 ppm	
US. NIOSH: Pocket Guide to Chemic	al Hazards		
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	

Material name: MATRIX SOCOLOR PERMANENT HAIR COLOR - GROUP 5

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US. NIOSH: Pocket Guide to Chemical Hazards

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

**Biological limit values** 

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

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

10 ppm

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.

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.

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.

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. Shaded Color

Characteristic. Odor Not available. Odor threshold

рΗ 10.5

Not available. Melting point/freezing point

Initial boiling point and boiling > 212 °F (> 100 °C)

range

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

Not available. **Evaporation rate** 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 Vapor density Not available. Not available. Relative density

Solubility(ies)

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

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot 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. Strong oxidizing agents.

Incompatible materials

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.

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 PERMANENT HAIR COLOR - GROUP 5

<u>Acute</u> Dermal

ATEmix 94220 mg/kg

Oral

ATEmix 5573 mg/kg

Components Species Test Results

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

BASIC ORANGE 31 (CAS 97404-02-9)

<u>Acute</u>

Dermal

LD50 Rat > 2000 mg/kg OECD 402

Oral

LD50 Rat 1000 - 2000 mg/kg OECD 420

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SDS US

Components Species Test Results

COCAMIDE MEA (CAS 68140-00-1)

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/kg bw

Oral

LD50 Rat > 3000 mg/kg bw OECD 401

ETHANOLAMINE (CAS 141-43-5)

<u>Acute</u>

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

**GLYCERIN (CAS 56-81-5)** 

<u>Acute</u>

**Dermal** 

LD50 Rabbit > 18700 mg/kg bw

Inhalation

LC50 Rat > 570 mg/L air, 1 h

Oral

LD50 Rat 27200 mg/kg bw

PEG-2 OLEAMINE (CAS 26635-93-8)

Acute Oral

LD50 Rat 1260 mg/kg OECD 401

RESORCINOL (CAS 108-46-3)

<u>Acute</u>

**Dermal** 

LD50 Rabbit 2830 mg/kg FHSL Act

Inhalation

Aerosol

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

Oral

LD50 Rat 510 mg/kg OECD 401

STEARAMIDE MEA (CAS 111-57-9)

<u>Acute</u>

**Dermal** 

LD50 Rabbit > 2000 mg/kg

> 2000 mg/kg, 24 Hours

Oral

LD50 Rat > 3000 mg/kg

> 2000 mg/kg OECD 401

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

**Irritation Corrosion - Skin** 

RESORCINOL FHLS Act, (100%)
Result: Irritating

Species: Rabbit

**Irritation Corrosion - Skin** 

**ETHANOLAMINE OFCD 404** 

Result: Corrosive Species: Rabbit

**PEG-2 OLEAMINE OECD 404** 

Result: Corrosive

Species: Rabbit AMMONIUM HYDROXIDE OECD 404

Result: Corrosive

Species: Rat **OECD 404** COCAMIDE MEA

Result: Irritating

Species: Rabbit RESORCINOL OECD 404, (2.5%)

Result: Not Irritating Species: Rabbit

STEARAMIDE MEA OECD 404, Based on test data for structurally similar

materials. Result: Irritating

Species: Rabbit **BASIC ORANGE 31** 

**OECD 439** 

Result: Not Irritating

Species: RhE

Result: Not Irritating **GLYCERIN** 

Species: Rabbit

Serious eye damage/eye irritation

Causes serious eye damage.

**Irritation Corrosion - Eve** 

RESORCINOL FHLS Act, (100%)

Result: Corrosive Species: Rabbit

COCAMIDE MEA **OECD 405** 

> Result: Corrosive Species: Rabbit

**ETHANOLAMINE OECD 405** 

Result: Corrosive

Species: Rabbit OECD 405, (2.5%) RESORCINOL

Result: Not Irritating

Species: Rabbit

STEARAMIDE MEA OECD 405, Based on test data for structurally similar

materials.

Result: Corrosive Species: Rabbit

**OECD 437 BASIC ORANGE 31** 

Result: Corrosive Species: BCOP

AMMONIUM HYDROXIDE Result: Corrosive **GLYCERIN** Result: Not Irritating

Species: Rabbit

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Skin sensitization

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**GLYCERIN** 167 mg/m3 air OECD 413, Inhalation

Result: NOAEL Species: Rat

Test Duration: 90 d COCAMIDE MEA **OECD 406** 

> Result: Not Sensitizing Species: Guinea pig

**PEG-2 OLEAMINE OECD 406** 

Result: Not Sensitizing

Species: Guinea pig

Skin sensitization

STEARAMIDE MEA OECD 406, Based on test data for structurally similar

materials.

Result: Not Sensitizing Species: Guinea pig

**BASIC ORANGE 31 OECD 429** 

Result: Sensitizina

Species: Mouse

**OECD 429** RESORCINOL

Result: Sensitizing Species: Mouse

**ETHANOLAMINE** Result: Not Sensitizing

Species: Guinea pig

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

> Result: Not Sensitzing Species: Guinea pig

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Mutagenicity

AMMONIUM HYDROXIDE

**GLYCERIN** Result: In vitro and in vivo tests did not show mutagenic

effects.

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

Result: In vitro tests did not show mutagenic effects AMMONIUM HYDROXIDE COCAMIDE MEA Result: In vitro tests did not show mutagenic effects Result: In vitro tests did not show mutagenic effects **PEG-2 OLEAMINE** Result: In vitro tests did not show mutagenic effects STEARAMIDE MEA **BASIC ORANGE 31** 

Result: In vitro tests showed mutagenic effects which were

not observed with in vivo test.

Result: In vitro tests showed mutagenic effects which were RESORCINOL

not observed with in vivo test.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

RESORCINOL (CAS 108-46-3) 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 This product is not expected to cause reproductive or developmental effects.

**Developmental effects** 

**COCAMIDE MEA** > 1000 mg/kg bw/d OECD 414, No effects on development

Result: NOEL

Species: Rat

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

Result: NOAEL Species: Rat

STEARAMIDE MEA 1000 mg/kg bw/d OECD 414, Based on test data for

structurally similar materials.

Species: Rat

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

> Result: NOAEL Species: Rat

PEG-2 OLEAMINE 150 mg/kg bw/d OECD 414

> Result: NOEL Species: Rat

250 mg/kg bw/d OECD 414 RESORCINOL

Result: NOAEL

Species: Rat

60 mg/kg bw/d Result: NOAEL

Species: Rat

Reproductivity

**BASIC ORANGE 31** 

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

Result: NOAEL Species: Rat

Material name: MATRIX SOCOLOR PERMANENT HAIR COLOR - GROUP 5

Reproductivity

RESORCINOL 245 mg/kg bw/d OECD 416

Result: NOAEL Species: Rat

30 mg/kg bw/d OECD 422 PEG-2 OLEAMINE

> Result: NOEL Species: Rat

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

Result: NOAEL Species: Rat

Specific target organ toxicity -

Not classified.

single exposure

AMMONIUM HYDROXIDE Result: Highly Irritating

Specific target organ toxicity -

repeated exposure

Not classified.

COCAMIDE MEA > 750 mg/kg bw/d OECD 407

Result: NOAEL Species: Rat Test Duration: 28 d

> 750 mg/kg bw/d OECD 407, Oral STEARAMIDE MEA

Result: NOAEL Species: Rat Test Duration: 28 d

**ETHANOLAMINE** 150 mg/m3 air OECD 412, Inhalation

Result: NOAEC Species: Rat Test Duration: 28 d

300 mg/kg bw/d OECD 416, Oral

Result: NOAEL Species: Rat

**PEG-2 OLEAMINE** 5 mg/kg bw/d OECD 408

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

**BASIC ORANGE 31** 60 mg/kg bw/d OECD 408, Oral

Result: NOAEL Species: Rat Test Duration: 90 d

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

Result: NOAEL Species: Rat Test Duration: 90 d

**GLYCERIN** 8000 mg/kg bw/d, Oral Result: NOAEL

Species: Rat Test Duration: 2 yr 991 mg/m<sup>3</sup> Result: NOAEC Species: Rat

Test Duration: 14 d

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. 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.

## 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** possibility that large or frequent spills can have a harmful or damaging effect on the environment.

> **Species Test Results**

AMMONIUM HYDROXIDE (CAS 1336-21-6)

Aquatic

Acute

Components

RESORCINOL

Algae EC50 Chlorella vulgaris 2700 mg/l, 18 d

Components		Species	Test Results
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
BASIC ORANGE 31 (CA	AS 97404-02-9)		
Aquatic			
Acute			
Algae	EC50	Desmodesmus subspicatus	17 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	3.2 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	> 100 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly domestic sewage	44.5 mg/l, 3 h OECD 209
COCAMIDE MEA (CAS	68140-00-1)		
Aquatic			
Acute	<b></b>		
Algae	EC50	Desmodesmus subspicatus	3.9 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	3 mg/l, 48 h OECD 202
Fish	LC50	Oncorhynchus mykiss	> 3 mg/l, 96 h OECD 203
Other	EC50	Pseudomonas putida	6000 mg/l, 16 h DIN 38412, Pt. 8
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
GLYCERIN (CAS 56-81	-5)		
Aquatic			
Acute	EC0	Scenedesmus quadricauda	> 10000 mg/l, 192 h
Algae		Daphnia magna	-
Crustacea	EC50	,	1955 mg/l, 48 h
Fish	LC50	Oncorhynchus mykiss	54000 mg/l, 96 h
Other	NOEC	Pseudomonas putida	> 10000 mg/l, 16 h
PEG-2 OLEAMINE (CAS	S 26635-93-8)		
<b>Aquatic</b> <i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	0.0867 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	0.043 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	0.1 mg/l, 96 h OECD 203
Other	EC50	Activated sludge of a predominantly	128 mg/l, 3 h OECD 209
Ouiei	LO30	domestic sewage	120 Hig/i, 3 H OLOD 203
Chronic		<del>-</del>	
Algae	EC10	Pseudokirchneriella subcapitata	0.0341 mg/l, 72 h OECD 201

Components **Species Test Results** RESORCINOL (CAS 108-46-3) Aquatic Acute EC50 Pseudokirchneriella subcapitata Algae > 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 79 mg/l, 3 h OECD 209 domestic sewage Chronic Crustacea NOEC Daphnia magna >= 0.172 mg/l, 21 d Fish LOEC Oncorhynchus mykiss 320 mg/l, 60 d STEARAMIDE MEA (CAS 111-57-9) **Aquatic** Acute Algae EC50 Pseudokirchneriella subcapitata 8.7 mg/l, 72 h OECD 201 Crustacea EC50 Daphnia magna 3 mg/l, 48 h OECD 202 Fish LC50 Oncorhynchus mykiss > 3 mg/l, 96 h OECD 203

Persistence and degradability

**COCAMIDE MEA** 

Biodegradability

Other

Fish

Chronic Crustacea

Percent degradation (Aerobic biodegradation)

EC50

**NOELR** 

NOEC

**BASIC ORANGE 31** 1 - 2 % OECD 301 B

Result: Not Readily Biodegradable

6 mg/l, 16 h

< 1 mg/l, 21 d OECD 211

0.32 mg/l, 28 d OECD 204

Test Duration: 28 d 99 % OECD 301 B

Result: Readily Biodegradable

Test Duration: 28 d

**ETHANOLAMINE** > 90 % OECD 301 A

Result: Readily Biodegradable

Test Duration: 21 d

**GLYCERIN OECD 301** 

Result: Readily Biodegradable **PEG-2 OLEAMINE** Result: Readily Biodegradable

Pseudomonas putida

Oncorhynchus mykiss

Daphnia magna

RESORCINOL 66.7 % OECD 301 C

Result: Readily Biodegradable

Test Duration: 14 d

STEARAMIDE MEA 69 % OECD 301 D

Result: Readily Biodegradable

Test Duration: 28 d

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

**BASIC ORANGE 31** -2.13 OECD 107 **ETHANOLAMINE** -2.3 OECD 107

**GLYCERIN** -1.76 **PEG-2 OLEAMINE** 3.4 RESORCINOL 8.0

Bioaccumulation

COCAMIDE MEA Result: Bioaccumulation is unlikely. Result: Bioaccumulation is unlikely. **ETHANOLAMINE** 

No data available. Mobility in soil

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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

**FINISHED GOODS** 

UN1760 **UN number** 

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

8 Class Ш 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

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

**POLLUTANT** 

**Class** 8 Ш Packing group

**Environmental hazards** 

Marine pollutant Yes

Transport hazard class(es) Label(s)

Special provisions B2, IB2, T11, TP2, TP27

8

Packaging non bulk 202

Read safety instructions, SDS and emergency procedures before handling.

IATA

**FINISHED GOODS** 

UN1760 **UN number** 

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

Class Ш Packing group Transport hazard class(es)

> Class 8, Limited Quantity Label(s)

**ERG Number** 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 Ш Packing group **Environmental hazards** 

Marine pollutant Yes **ERG Number** 8L

Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**FINISHED GOODS** 

UN1760 **UN number** 

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

Class

Ш **Packing group Environmental Hazards** 

Marine pollutant No.

Transport hazard class(es)

Label(s) Limited Quantity

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

**BULK** 

**UN number** UN1760

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

**POLLUTANT** 

Class Ш Packing group

**Environmental hazards** 

Marine pollutant Yes F-A, S-B **EmS** 

Read safety instructions, SDS and emergency procedures before handling.

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) Listed. RESORCINOL (CAS 108-46-3) 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	< 5	

## 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)

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

**GLYCERIN (CAS 56-81-5)** Other Flavoring Substances with OSHA PEL's

RESORCINOL (CAS 108-46-3) Low priority

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

Issue date 10-23-2019

Version # 01 NFPA ratings Health: 3

Flammability: 0 Instability: 0

Material name: MATRIX SOCOLOR PERMANENT HAIR COLOR - GROUP 5

SDS US 39235 Version #: 01 Issue date: 10-23-2019

## Disclaimer

Matrix cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.