

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture	MATRIX SOCOLOR DREAM.AGE LOW AMMONIA CREAM HAIRCOLOR - GROUP 5
Synonyms	None.
SDS number	80-21-0000197
Issue date	05-28-2019
Version number	01

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Personal care product used for cosmetic effect.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Contact person

Company name	L'ORÉAL SA
Address	14, rue royale 75008 - Paris France
Telephone	+1 732 499 2745
e-mail	nacorpEuropeSDSrequest@loreal.com

1.4. Emergency telephone number

Orfila +33 1 45 42 59 59

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

Environmental hazards

Hazardous to the aquatic environment, acute aquatic hazard	Category 1	H400 - Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

Hazard summary

Causes severe skin burns and eye damage. May cause irritation to the respiratory system. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: AMMONIUM HYDROXIDE, COCAMIDE MEA, ETHANOLAMINE, PEG-2 OLEAMINE

Hazard pictograms



Signal word

Danger

Hazard statements

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe vapor.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P101	If medical advice is needed, have product container or label at hand.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information 11,93% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 13,99% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. EUH208 - Contains P-PHENYLENEDIAMINE, RESORCINOL. May produce an allergic reaction.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
COCAMIDE MEA	≤ 18	68140-00-1 268-770-2	-	-	
Classification:	Skin Irrit. 2;H315, Eye Dam. 1;H318, Aquatic Chronic 2;H411				
ETHANOLAMINE	< 6	141-43-5 205-483-3	01-2119486455-28	603-030-00-8	#
Classification:	Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Eye Dam. 1;H318, Acute Tox. 4;H332, STOT SE 3;H335, Aquatic Chronic 3;H412				
AMMONIUM HYDROXIDE	< 3	1336-21-6 215-647-6	01-2119982985-14	007-001-01-2	#
Classification:	Acute Tox. 4;H302, Skin Corr. 1B;H314, Eye Dam. 1;H318, STOT SE 3;H335, Aquatic Acute 1;H400				
PEG-2 OLEAMINE	≤ 3	26635-93-8 500-048-7	01-2120785735-39	-	
Classification:	Acute Tox. 4;H302, Skin Corr. 1B;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400(M=10), Aquatic Chronic 1;H410				
BEHENTRIMONIUM METHOSULFATE	< 0,7	81646-13-1 279-791-1	01-2119949051-44	-	
Classification:	Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT RE 2;H373, Aquatic Acute 1;H400, Aquatic Chronic 2;H411				
HEXADIMETHRINE CHLORIDE	≤ 0,3	68393-49-7 672-780-6	-	-	
Classification:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
P-PHENYLENEDIAMINE	< 0,1	106-50-3 203-404-7	01-2119471483-36	612-028-00-6	
Classification:	Acute Tox. 3;H301, Acute Tox. 3;H311, Skin Sens. 1A;H317, Eye Irrit. 2;H319, Acute Tox. 3;H331, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				
RESORCINOL	< 0,1	108-46-3 203-585-2	01-2119480136-40	604-010-00-1	#
Classification:	Acute Tox. 4;H302, Skin Irrit. 2;H315, Skin Sens. 1A;H317, Eye Irrit. 2;H319, STOT SE 1;H370, Aquatic Acute 1;H400, Aquatic Chronic 3;H412				

Other components below reportable levels 70 - < 89

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
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.

4.2. Most important symptoms and effects, both 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. May cause respiratory irritation.

4.3. Indication of any 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.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

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

Special fire fighting procedures 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel 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.

For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Prevent product from entering drains. 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.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. 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. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. 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).
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Belgium. Exposure Limit Values.

Components	Type	Value	Form
ETHANOLAMINE (CAS 141-43-5)	STEL	7,6 mg/m3	
		3 ppm	
	TWA	2,5 mg/m3	
GLYCERIN (CAS 56-81-5)		1 ppm	
	TWA	10 mg/m3	Mist.
		0,1 mg/m3	
P-PHENYLENEDIAMINE (CAS 106-50-3)	TWA		
		91 mg/m3	
	STEL		
RESORCINOL (CAS 108-46-3)		20 ppm	
	TWA	46 mg/m3	
		10 ppm	

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
AMMONIUM HYDROXIDE (CAS 1336-21-6)	VLE	14 mg/m3	
	Regulatory status: Regulatory binding (VRC)		
		20 ppm	
	Regulatory status: Regulatory binding (VRC)		
	VME	7 mg/m3	
	Regulatory status: Regulatory binding (VRC)		
ETHANOLAMINE (CAS 141-43-5)		10 ppm	
	Regulatory status: Regulatory binding (VRC)		
	VLE	7,6 mg/m3	
	Regulatory status: Regulatory binding (VRC)		
		3 ppm	
	Regulatory status: Regulatory binding (VRC)		

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
	VME	2,5 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		1 ppm	
Regulatory status:	Regulatory binding (VRC)		
GLYCERIN (CAS 56-81-5)	VME	10 mg/m3	Aerosol.
Regulatory status:	Indicative limit (VL)		
P-PHENYLENEDIAMINE (CAS 106-50-3)	VME	0,1 mg/m3	
Regulatory status:	Indicative limit (VL)		
RESORCINOL (CAS 108-46-3)	VME	45 mg/m3	
Regulatory status:	Regulatory indicative (VRI)		
		10 ppm	
Regulatory status:	Regulatory indicative (VRI)		

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
ETHANOLAMINE (CAS 141-43-5)	TWA	0,51 mg/m3	Vapor and aerosol.
		0,2 ppm	Vapor and aerosol.
GLYCERIN (CAS 56-81-5)	TWA	200 mg/m3	Inhalable fraction.
P-PHENYLENEDIAMINE (CAS 106-50-3)	TWA	0,1 mg/m3	Vapor and aerosol, inhalable fraction.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
AMMONIUM HYDROXIDE (CAS 1336-21-6)	AGW	14 mg/m3	
		20 ppm	
ETHANOLAMINE (CAS 141-43-5)	AGW	0,5 mg/m3	Vapor and aerosol.
		0,2 ppm	Vapor and aerosol.
GLYCERIN (CAS 56-81-5)	AGW	200 mg/m3	Inhalable fraction.
P-PHENYLENEDIAMINE (CAS 106-50-3)	AGW	0,1 mg/m3	Inhalable fraction.
RESORCINOL (CAS 108-46-3)	AGW	20 mg/m3	Inhalable fraction.
		4 ppm	Inhalable fraction.

Italy. Occupational Exposure Limits

Components	Type	Value
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	36 mg/m3
		50 ppm
	TWA	14 mg/m3
		20 ppm
ETHANOLAMINE (CAS 141-43-5)	STEL	7,6 mg/m3
		3 ppm
	TWA	2,5 mg/m3
		1 ppm
P-PHENYLENEDIAMINE (CAS 106-50-3)	TWA	0,1 mg/m3
RESORCINOL (CAS 108-46-3)	TWA	45 mg/m3
		10 ppm

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value	Form
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	28 mg/m3	
	TWA	14 mg/m3	
ETHANOLAMINE (CAS 141-43-5)	STEL	7,5 mg/m3	
	TWA	2,5 mg/m3	
GLYCERIN (CAS 56-81-5)	TWA	10 mg/m3	Inhalable fraction.
P-PHENYLENEDIAMINE (CAS 106-50-3)	TWA	0,1 mg/m3	
RESORCINOL (CAS 108-46-3)	STEL	90 mg/m3	
	TWA	45 mg/m3	

Spain. Occupational Exposure Limits

Components	Type	Value	Form
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	36 mg/m3	
		50 ppm	
	TWA	14 mg/m3 20 ppm	
ETHANOLAMINE (CAS 141-43-5)	STEL	7,5 mg/m3	
		3 ppm	
	TWA	2,5 mg/m3 1 ppm	
GLYCERIN (CAS 56-81-5)	TWA	10 mg/m3	Mist.
P-PHENYLENEDIAMINE (CAS 106-50-3)	TWA	0,1 mg/m3	
RESORCINOL (CAS 108-46-3)	TWA	46 mg/m3	
		10 ppm	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
AMMONIUM HYDROXIDE (CAS 1336-21-6)	STEL	36 mg/m3
		50 ppm
	TWA	14 mg/m3 20 ppm
ETHANOLAMINE (CAS 141-43-5)	STEL	7,6 mg/m3
		3 ppm
	TWA	2,5 mg/m3 1 ppm
RESORCINOL (CAS 108-46-3)	TWA	45 mg/m3
		10 ppm

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

EU Exposure Limit Values: Skin designation

ETHANOLAMINE (CAS 141-43-5)

Can be absorbed through the skin.

RESORCINOL (CAS 108-46-3)

Can be absorbed through the skin.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

ETHANOLAMINE (CAS 141-43-5)

Can be absorbed through the skin.

P-PHENYLENEDIAMINE (CAS 106-50-3)

Can be absorbed through the skin.

RESORCINOL (CAS 108-46-3)

Can be absorbed through the skin.

8.2. Exposure controls

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

General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Applicable for industrial settings only. Chemical respirator with organic vapor cartridge and full facepiece.

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.

Respiratory protection

Applicable for industrial settings only. Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

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.

Environmental exposure controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state

Liquid.

Form

Not available.

Color

Shaded

Odor

Not available.

Odor threshold

Not available.

pH

10,5

Melting point/freezing point

Not available.

Initial boiling point and boiling range

> 212 °F (> 100 °C)

Flash point

> 212,0 °F (> 100,0 °C) Closed Cup

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
9.2. Other information	No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
10.5. Incompatible materials	Strong acids. Strong oxidizing agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
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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.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.

Symptoms	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. May cause respiratory irritation.
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11.1. Information on toxicological effects

Acute toxicity	Not known.
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Product	Species	Test Results
MATRIX SOCOLOR DREAM.AGE LOW AMMONIA CREAM HAIRCOLOR - GROUP 5		
<u>Acute</u>		
Dermal		
ATEmix		18770 mg/kg
Inhalation		
<i>Vapor</i>		
ATEmix		180 mg/l
Oral		
ATEmix		8554 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
BEHENTRIMONIUM METHOSULFATE (CAS 81646-13-1)		
<u>Acute</u>		
Oral		
LD50	Rat	3190 mg/kg bw/d OECD 401

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		
<i>Vapor</i>		
LC50	Rat	> 1,3 mg/l, 6 h
Oral		
LD50	Rat	1515 mg/kg OECD 401
HEXADIMETHRINE CHLORIDE (CAS 68393-49-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg OECD 402
Oral		
LD50	Rat	> 2000 mg/kg OECD 420
PEG-2 OLEAMINE (CAS 26635-93-8)		
<u>Acute</u>		
Oral		
LD50	Rat	1260 mg/kg OECD 401
P-PHENYLENEDIAMINE (CAS 106-50-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 7940 mg/kg
Inhalation		
<i>Vapor or aerosol</i>		
LC50	Rat	0,92 mg/l, 4 Hours
Oral		
LD50	Rat	80 - 100 mg/kg bw
RESORCINOL (CAS 108-46-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	2830 mg/kg FHSL Act
Inhalation		
<i>Aerosol</i>		
LC0	Rat	> 7800 mg/m³, 1 h FHSL Act
Oral		
LD50	Rat	510 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	
ETHANOLAMINE	OECD 404 Result: Corrosive Species: Rabbit	
PEG-2 OLEAMINE	OECD 404 Result: Corrosive Species: Rabbit	
AMMONIUM HYDROXIDE	OECD 404 Result: Corrosive Species: Rat	

Irritation Corrosion - Skin

BEHENTRIMONIUM METHOSULFATE

OECD 404

Result: Irritating

Species: Rabbit

COCAMIDE MEA

OECD 404

Result: Irritating

Species: Rabbit

HEXADIMETHRINE CHLORIDE

OECD 404

Result: Not Irritating

RESORCINOL

OECD 404, (2,5%)

Result: Not Irritating

Species: Rabbit

P-PHENYLENEDIAMINE

Result: Not Irritating

Species: Guinea pig

Serious eye damage/eye irritation

Causes serious eye damage.

Irritation Corrosion - Eye

RESORCINOL

FHLS Act, (100%)

Result: Corrosive

Species: Rabbit

BEHENTRIMONIUM METHOSULFATE

OECD 405

Result: Corrosive

Species: Rabbit

COCAMIDE MEA

OECD 405

Result: Corrosive

Species: Rabbit

ETHANOLAMINE

OECD 405

Result: Corrosive

Species: Rabbit

P-PHENYLENEDIAMINE

OECD 405

Result: Irritating

Species: Rabbit

HEXADIMETHRINE CHLORIDE

OECD 405

Result: Not Irritating

RESORCINOL

OECD 405, (2,5%)

Result: Not Irritating

Species: Rabbit

AMMONIUM HYDROXIDE

Result: Corrosive

Respiratory sensitization

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

Skin sensitization

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

Skin sensitization

BEHENTRIMONIUM METHOSULFATE

OECD 406

Result: Not Sensitizing

Species: Guinea pig

COCAMIDE MEA

OECD 406

Result: Not Sensitizing

Species: Guinea pig

PEG-2 OLEAMINE

OECD 406

Result: Not Sensitizing

Species: Guinea pig

HEXADIMETHRINE CHLORIDE

OECD 429

Result: Not Sensitizing

Species: Mouse

P-PHENYLENEDIAMINE

OECD 429

Result: Sensitizing

Species: Mouse

RESORCINOL

OECD 429

Result: Sensitizing

Species: Mouse

ETHANOLAMINE

Result: Not Sensitizing

Species: Guinea pig

AMMONIUM HYDROXIDE

Result: Not Sensitizing

Species: Guinea pig

Germ cell mutagenicity

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

Mutagenicity

ETHANOLAMINE

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

AMMONIUM HYDROXIDE

Result: In vitro tests did not show mutagenic effects

BEHENTRIMONIUM METHOSULFATE

Result: In vitro tests did not show mutagenic effects

COCAMIDE MEA

Result: In vitro tests did not show mutagenic effects

HEXADIMETHRINE CHLORIDE

Result: In vitro tests did not show mutagenic effects

Mutagenicity
PEG-2 OLEAMINE
P-PHENYLENEDIAMINE

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

RESORCINOL

Carcinogenicity

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

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

IARC Monographs. Overall Evaluation of Carcinogenicity

P-PHENYLENEDIAMINE (CAS 106-50-3)
RESORCINOL (CAS 108-46-3)

3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

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

Developmental effects

COCAMIDE MEA

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

ETHANOLAMINE

>= 450 mg/kg bw/d OECD 414
Result: NOAEL
Species: Rat

P-PHENYLENEDIAMINE

10 mg/kg bw/d OECD 414
Result: NOAEL
Species: Rat

PEG-2 OLEAMINE

150 mg/kg bw/d OECD 414
Result: NOEL
Species: Rat

RESORCINOL

250 mg/kg bw/d OECD 414
Result: NOAEL
Species: Rat

BEHENTRIMONIUM METHOSULFATE

30 mg/kg bw/d OECD 421
Result: NOAEL
Species: Rat

Reproductivity

RESORCINOL

245 mg/kg bw/d OECD 416
Result: NOAEL
Species: Rat

PEG-2 OLEAMINE

30 mg/kg bw/d OECD 422
Result: NOEL
Species: Rat

ETHANOLAMINE

300 mg/kg bw/d OECD 416
Result: NOAEL
Species: Rat

BEHENTRIMONIUM METHOSULFATE

75 mg/kg bw/d OECD 421
Result: NOAEL
Species: Rat

Specific target organ toxicity - single exposure

May cause respiratory irritation.

AMMONIUM HYDROXIDE

Result: Highly Irritating

Specific target organ toxicity - repeated exposure

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

COCAMIDE MEA

> 750 mg/kg bw/d OECD 407
Result: NOAEL
Species: Rat

BEHENTRIMONIUM METHOSULFATE

Test Duration: 28 d
10 mg/kg bw/d OECD 407, Oral
Result: NOAEL
Species: Rat

ETHANOLAMINE

Test Duration: 28 d
150 mg/m3 air OECD 412, Inhalation
Result: NOAEC
Species: Rat

P-PHENYLENEDIAMINE

Test Duration: 28 d
16 mg/kg bw/d OECD 408
Result: NOAEL
Species: Rat

Test Duration: 90 d

Specific target organ toxicity - repeated exposure

ETHANOLAMINE

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

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.

Mixture versus substance information

No information available.

Other information

Not available.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Components

Species

Test Results

AMMONIUM HYDROXIDE (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

BEHENTRIMONIUM METHOSULFATE (CAS 81646-13-1)

Aquatic

Acute

Algae	EC50	Desmodesmus subspicatus	3,48 mg/l, 72 h OECD 201
Crustacea	EC50	Daphnia magna	1,39 mg/l, 48 h OECD 202
Fish	LC50	Danio rerio	0,5 - 1 mg/l, 96 h OECD 201
Other	EC50	Activated sludge of a predominantly domestic sewage	43 mg/l, 3 h OECD 209

Chronic

Crustacea	NOEC	Daphnia magna	0,128 mg/l, 21 d OECD 211
Fish	NOEC	Danio rerio	0,24 mg/l, 9 d OECD 212

COCAMIDE MEA (CAS 68140-00-1)

Aquatic

Acute

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

Components		Species	Test Results
Other	EC10	Activated sludge of a predominantly domestic sewage	> 1000 mg/l, 30 min OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	0,85 mg/l, 21 d OECD 211
Fish	NOEC	Oryzias latipes	1,24 mg/l, 41 d OECD 210
HEXADIMETHRINE CHLORIDE (CAS 68393-49-7)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae	0,5 - 1 mg/l, 72 h
Crustacea	EC50	Daphnia magna	0,34 mg/l, 48 h
Fish	LC50	Danio rerio	0,21 - 0,46 mg/l, 96 h
PEG-2 OLEAMINE (CAS 26635-93-8)			
Aquatic			
<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 domestic sewage	128 mg/l, 3 h OECD 209
<i>Chronic</i>			
Algae	EC10	Pseudokirchneriella subcapitata	0,0341 mg/l, 72 h OECD 201
Crustacea	EC10	Daphnia magna	0,0011 mg/l, 21 d OECD 211
P-PHENYLENEDIAMINE (CAS 106-50-3)			
Aquatic			
<i>Acute</i>			
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 108-46-3)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 97 mg/l, 97 h OECD 201
Crustacea	LC50	Daphnia magna	1 mg/l, 48 h OECD 202
Fish	LC50	Pimephales promelas	26,8 mg/l, 96 h EPA-660/3/75-009
Other		Activated sludge of a predominantly domestic sewage	79 mg/l, 3 h OECD 209
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	>= 0,172 mg/l, 21 d
Fish	LOEC	Oncorhynchus mykiss	320 mg/l, 60 d

12.2. Persistence and degradability

Biodegradability

Percent degradation (Aerobic biodegradation)

BEHENTRIMONIUM METHOSULFATE	80 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d
COCAMIDE MEA	99 % OECD 301 B Result: Readily Biodegradable Test Duration: 28 d
ETHANOLAMINE	> 90 % OECD 301 A Result: Readily Biodegradable Test Duration: 21 d
HEXADIMETHRINE CHLORIDE	Result: Not Readily Biodegradable
PEG-2 OLEAMINE	Result: Readily Biodegradable

Biodegradability**Percent degradation (Aerobic biodegradation)**

P-PHENYLENEDIAMINE

28 - 30 % OECD 301 D

Result: Not Readily Biodegradable

Test Duration: 28 d

RESORCINOL

66,7 % OECD 301 C

Result: Readily Biodegradable

Test Duration: 14 d

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

ETHANOLAMINE

-2,3 OECD 107

PEG-2 OLEAMINE

3,4

P-PHENYLENEDIAMINE

-0,25

RESORCINOL

0,8

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. 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.

12.7. Additional information**Estonia Dangerous substances in groundwater Data**

RESORCINOL (CAS 108-46-3)

RESORCINOL 0,5 UG/L

RESORCINOL 50 UG/L

Estonia Dangerous substances in soil Data

RESORCINOL (CAS 108-46-3)

RESORCINOL 0,1 MG/KG

RESORCINOL 1 MG/KG

RESORCINOL 10 MG/KG

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Residual waste**

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.

EU waste code

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions

Dispose in accordance with all applicable regulations.

SECTION 14: Transport information**ADR****FINISHED GOODS****14.1. UN number**

UN1760

14.2. UN proper shipping name

CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE), Limited Quantity

14.3. Transport hazard class(es)**Class**

8

Label(s)

Limited Quantity

Hazard No. (ADR)

80

Tunnel restriction code

E

14.4. Packing group

II

14.5. Environmental hazards

No

14.6. Special precautions for user

Not available.

LTD QTY Net Inner Capacity

1.0 L

BULK**14.1. UN number**

UN1760

14.2. UN proper shipping name

CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE)

14.3. Transport hazard class(es)

Class 8
Label(s) 8
Hazard No. (ADR) 80
Tunnel restriction code E

14.4. Packing group II

14.5. Environmental hazards Yes

14.6. Special precautions for user Not available.

IATA**FINISHED GOODS**

14.1. UN number UN1760

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

14.3. Transport hazard class(es)

Class 8
Label(s) Class 8, Limited Quantity

14.4. Packing group II

14.5. Environmental hazards No.

ERG Code 8L

14.6. Special precautions for user Not available.

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

Packing instruction (LQ) Y840

Special Provisions A3,A803

LTD QTY Net Inner Capacity 0.1 L

BULK

14.1. UN number UN1760

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

14.3. Transport hazard class(es)

Class 8

14.4. Packing group II

14.5. Environmental hazards Yes

ERG Code 8L

14.6. Special precautions for user Not available.

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

Packing instruction (LQ) Y840

Special Provisions A3,A803

IMDG**FINISHED GOODS**

14.1. UN number UN1760

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

14.3. Transport hazard class(es)

Class 8
Label(s) Limited Quantity

14.4. Packing group II

14.5. Environmental hazards

Marine pollutant No.

EmS F-A, S-B

14.6. Special precautions for user Not available.

LTD QTY Net Inner Capacity 1.0 L

BULK

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (AMMONIUM HYDROXIDE, ETHANOLAMINE), MARINE POLLUTANT
14.3. Transport hazard class(es)	
Class	8
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-B
14.6. Special precautions for user	Not available.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	Not established.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

AMMONIUM HYDROXIDE (CAS 1336-21-6)

P-PHENYLENEDIAMINE (CAS 106-50-3)

RESORCINOL (CAS 108-46-3)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H370 Causes damage to organs by ingestion.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Revision information

None.

Training information

Follow training instructions when handling this material.

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.