

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: 0006
Product name: TINTURA MOOD COLOR 100 ML

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

Identified Uses	Industrial	Professional	Consumer
hair dyeing	-	✓	-

Uses Advised Against

Do not use other than as indicated.

1.3. Details of the supplier of the safety data sheet

Name: PIDIELLE S.p.A.
Full address: VIA BERGAMINA, 7
District and Country: 20014 NERVIANO (MI)
Italy
Tel. +39 0331 580 166
Fax +39 0331 485 677

e-mail address of the competent person

responsible for the Safety Data Sheet: sds@elgoncosmetic.it
Product distribution by: PIDIELLE S.p.A.

1.4. Emergency telephone number

For urgent inquiries refer to

+39 0331 580 166

Numeri telefonici dei principali Centri Antiveleni italiani (attivi 24/24 ore)

Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)
Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda - Milano)
Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)
Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)
Centro Antiveleni di Roma 06 305434 (CAV Policlinico Gemelli - Roma)
Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma)
Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)
Centro Antiveleni di Foggia 0881 732326 (Az. Osp. Univ. Foggia)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

TINTURA MOOD COLOR 100 ML

Hazard classification and indication:

Germ cell mutagenicity, category 2	H341
Acute toxicity, category 4	H302
Skin corrosion, category 1B	H314
Serious eye damage, category 1	H318
Specific target organ toxicity - single exposure, category 3	H335
Skin sensitization, category 1A	H317
Specific target organ toxicity - single exposure, category 2	H371
Hazardous to the aquatic environment, acute toxicity, category 1	H400
Hazardous to the aquatic environment, chronic toxicity, category 2	H411

Suspected of causing genetic defects.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause respiratory irritation.
May cause an allergic skin reaction.
May cause damage to organs.
Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H341	Suspected of causing genetic defects.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.
EUH208	Contains: 2,4-DIAMINOPHENOXETHANOL HCl ok, PHENYL METHYL PYRAZOLONE, BASIC ORANGE 31, 4-AMINO-m-CRESOL, 1-NAPHTHOL, 2-METHYLRESORCINOL, HC RED NO. 3, 2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE, N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE May produce an allergic reaction.

Precautionary statements:

P260	Do not breathe dust / fume / gas / mist / vapours / spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P310	Immediately call a POISON CENTER / doctor / . . .
P264	Wash with water thoroughly after handling.

Contains:

p-AMINOPHENOL
AMMONIA
P-PHENYLENEDIAMINE

TINTURA MOOD COLOR 100 ML

RESORCINOL
 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE
 TOLUENE-2,5-DIAMINE SULFATE
 4-AMINO-2-HYDROXYTOLUENE
 4-CHLORORESORCINOL
 m-AMINOPHENOL

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
AMMONIA		
CAS 1336-21-6	$8 \leq x < 9$	Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Classification note according to Annex VI to the CLP Regulation: B
EC 215-647-6		
INDEX 007-001-01-2		
TOLUENE-2,5-DIAMINE SULFATE		
CAS 615-50-9	$1 \leq x < 1,5$	Acute Tox. 3 H301, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 210-431-8		
INDEX -		
Reg. no. 01-2119962199-25-xxxx		
P-PHENYLENEDIAMINE		
CAS 106-50-3	$1 \leq x < 1,5$	Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 203-404-7		
INDEX 612-028-00-6		
RESORCINOL		
CAS 108-46-3	$1 \leq x < 1,5$	STOT SE 1 H370, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412
EC 203-585-2		
INDEX 604-010-00-1		
Reg. no. 01-2119480136-40-XXXX		
p-AMINOPHENOL		
CAS 123-30-8	$1 \leq x < 1,5$	Muta. 2 H341, Acute Tox. 4 H302, Acute Tox. 4 H332, STOT RE 2 H373, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1
EC 204-616-2		
INDEX -		
Reg. no. 01-2119535388-31-XXXX		
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE		

TINTURA MOOD COLOR 100 ML

CAS 155601-30-2 $1 \leq x < 1,5$ Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 429-300-3

INDEX -

2-AMINO-3-HYDROXYPYRIDINE

CAS 16867-03-1 $1 \leq x < 1,5$

Acute Tox. 4 H302, STOT RE 2 H373, Aquatic Chronic 2 H411

EC 240-886-8

INDEX -

5-AMINO-6-CHLORO-o-CRESOL

CAS 84540-50-1 $1 \leq x < 1,5$

Acute Tox. 4 H302, Aquatic Chronic 2 H411

EC 283-144-9

INDEX -

4-AMINO-2-HYDROXYTOLUENE

CAS 2835-95-2 $1 \leq x < 1,5$

Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 220-618-6

INDEX -

Reg. no. 01-2120766272-54-XXXX

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

CAS 54381-16-7 $0,7 \leq x < 0,8$

Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410 M=1

EC 259-134-5

INDEX -

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

CAS 83763-48-8 $0,6 \leq x < 0,7$

Acute Tox. 4 H302, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 280-734-8

INDEX -

HC RED NO. 3

CAS 2871-01-4 $0,5 \leq x < 0,6$

Eye Irrit. 2 H319, STOT SE 3 H335, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 220-701-7

INDEX -

Reg. no. 01-2120760459-0000

2-METHYLRESORCINOL

CAS 608-25-3 $0,4 \leq x < 0,45$

Acute Tox. 3 H301, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1

EC 210-155-8

INDEX -

Reg. no. 01-2120030526-64-XXXX

1-NAPHTHOL

CAS 90-15-3 $0,4 \leq x < 0,45$

Acute Tox. 3 H311, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1B H317, STOT SE 2 H371, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412

EC 201-969-4

INDEX -

m-AMINOPHENOL

CAS 591-27-5 $0,4 \leq x < 0,45$

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Sens. 1A H317, Aquatic Chronic 2 H411

TINTURA MOOD COLOR 100 ML

EC 209-711-2

INDEX 612-127-00-4

Reg. no. 01-2119930678-27-XXXX

4-AMINO-m-CRESOL

CAS 2835-99-6 0,35 ≤ x < 0,4 Acute Tox. 4 H302, Skin Sens. 1 H317, Aquatic Chronic 1 H410 M=1

EC 220-621-2

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BASIC ORANGE 31

CAS 97404-02-9 0,25 ≤ x < 0,3 Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC 306-764-4

INDEX -

PHENYL METHYL PYRAZOLONE

CAS 89-25-8 0,15 ≤ x < 0,2 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 4 H413

EC 201-891-0

INDEX -

4-CHLORORESORCINOL

CAS 95-88-5 0,1 ≤ x < 0,15 Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1A H317

EC 202-462-0

INDEX -

2,4-DIAMINOPHENOXYETHANOL**HCl ok**

CAS 66422-95-5 0,1 ≤ x < 0,15 Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 266-357-1

INDEX -

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures**4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

TINTURA MOOD COLOR 100 ML

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

AMMONIA

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	14	20	36	50	
OEL	EU	14	20	36	50	
TLV-ACGIH		17	25	24	35	
Predicted no-effect concentration - PNEC						
Normal value in fresh water				0,0011	mg/l	
Normal value in marine water				0,011	mg/l	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					36 mg/m3	47,6 mg/m3	14 mg/m3	47,6 mg/m3
Skin						6,8 mg/kg bw/d		6,8 mg/kg bw/d

RESORCINOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		45	10	90	20	
Predicted no-effect concentration - PNEC						
Normal value in fresh water				0,0172	mg/l	
Normal value in marine water				0,00172	mg/l	
Normal value for fresh water sediment				0,109	mg/kg	
Normal value for marine water sediment				0,0109	mg/kg	
Normal value for the terrestrial compartment				10	mg/kg	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic

TINTURA MOOD COLOR 100 ML

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,4 mg/kg bw/d				
Inhalation				1,4 mg/m3				5,6 mg/m3
Skin				20 mg/kg bw/d				40 mg/kg bw/d

4-AMINO-2-HYDROXYTOLUENE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,024	mg/l
Normal value in marine water	0,0024	mg/l
Normal value for fresh water sediment	0,129	mg/kg/d
Normal value for marine water sediment	0,0129	mg/kg/d
Normal value for water, intermittent release	0,023	mg/l
Normal value of STP microorganisms	1,5	mg/l
Normal value for the terrestrial compartment	0,0117	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,9 mg/kg bw/d				
Inhalation				1,647 mg/m3				6,601 mg/m3
Skin	0,00133 mg/cm2		0,00133 mg/cm2	1,613 mg/kg bw/d	0,00266 mg/cm2		0,00266 mg/cm2	3,226 mg/kg bw/d

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

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,027	mg/l
Normal value in marine water	0,003	mg/l
Normal value for fresh water sediment	0,11	mg/kg
Normal value for marine water sediment	0,011	mg/kg
Normal value of STP microorganisms	2,28	mg/l
Normal value for the terrestrial compartment	0,006	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								0,176 mg/m3
Skin					0,01733 mg/kg bw/d		0,01733 mg/kg bw/d	69,44 mg/kg bw/d

2-METHYLRESORCINOL

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,249	mg/l
Normal value in marine water	0,0249	mg/l
Normal value for fresh water sediment	4,28	mg/kg/d
Normal value for marine water sediment	0,428	mg/kg/d
Normal value of STP microorganisms	0,32	mg/l
Normal value for the terrestrial compartment	0,709	mg/kg

TINTURA MOOD COLOR 100 ML

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,5 mg/kg bw/d				
Inhalation				0,87 mg/m3				4,93 mg/m3
Skin				0,5 mg/kg bw/d				1,4 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

If the product may or must come into contact or react with acids, suitable technical and/or organisational measures should be taken to prevent the development of toxic and/or inflammable gases.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	cream	
Colour	depending on shade	
Odour	characteristic	
Odour threshold	Not available	
pH	9,5 - 11,0	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	0,97 - 0,99 g/ml	Temperature:20 °C
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	30.000 - 200.000 cPs	Temperature:32 ± 5 °C
Explosive properties	Not available	
Oxidising properties	Not available	

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

AMMONIA

Corrodes: aluminium,iron,zinc,copper,copper alloys.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

AMMONIA

Risk of explosion on contact with: strong acids,iodine.May react dangerously with: strong bases.

2-AMINO-3-HYDROXYPYRIDINE

Possibility of explosion.

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

Possibility of explosion.

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

Forms explosive mixtures with: air.

PHENYL METHYL PYRAZOLONE

Forms explosive mixtures with: air.

2,4-DIAMINOPHENOXYETHANOL HCl ok

Forms explosive mixtures with: air.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

2-AMINO-3-HYDROXYPYRIDINE

Avoid exposure to: light,moisture.

Avoid contact with: water.

5-AMINO-6-CHLORO-o-CRESOL

Keep away from: oxidising agents,reducing agents.

4-AMINO-2-HYDROXYTOLUENE

Keep away from: strong oxidising agents,reducing agents,strong acids,acid chlorides,acid anhydrides.

p-AMINOPHENOL

Avoid exposure to: air,light.

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

TINTURA MOOD COLOR 100 ML

Keep away from: oxidising agents, reducing agents, strong alkalis.

Evitare l'esposizione a: temperatura superiori a 40 °C

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

Avoid exposure to: sources of heat, moisture.

1-NAPHTHOL

Avoid exposure to: air, light, moisture.

4-AMINO-m-CRESOL

Evitare l'esposizione a: eccessivo calore luce

PHENYL METHYL PYRAZOLONE

Evitare l'esposizione a: calore fiamme e scintille umidità scariche elettrostatiche

10.5. Incompatible materials

AMMONIA

Incompatible with: silver, silver salts, lead, lead salts, zinc, zinc salts, hydrochloric acid, nitric acid, oleum, halogens, acrolein, nitromethane, acrylic acid.

TOLUENE-2,5-DIAMINE SULFATE

Keep away from: oxidising agents, reducing agents.

P-PHENYLENEDIAMINE

Incompatible with: acids, strong oxidising agents, acid chlorides, organic anhydrides.

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE

Keep away from: oxidising agents, reducing agents.

2-AMINO-3-HYDROXYPYRIDINE

Avoid contact with: strong oxidising agents, acids.

p-AMINOPHENOL

Keep away from: acids, strong oxidising agents, acid chlorides, acid anhydrides.

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

Avoid contact with: strong oxidising agents.

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

Avoid contact with: oxidising substances, reducing substances.

HC RED NO. 3

Avoid contact with: oxidising agents, reducing agents.

2-METHYLRESORCINOL

Keep away from: hydrochloric acid, hydrogen cyanide, iron, oxidising agents, reducing agents, iron salts.

1-NAPHTHOL

Keep away from: strong oxidising agents, strong alkalis, acid anhydrides, acid chlorides, halogens.

m-AMINOPHENOL

Keep away from: acids, oxidising substances.

4-AMINO-m-CRESOL

Avoid contact with: strong acids, strong oxidising agents, acid anhydrides, acid chlorides.

BASIC ORANGE 31

Avoid contact with: oxidising agents, reducing agents.

PHENYL METHYL PYRAZOLONE

Incompatible with: oxidising agents, reducing agents.

4-CHLORORESORCINOL

Keep away from: acids, oxidising agents.

2,4-DIAMINOPHENOXYETHANOL HCl ok

Keep away from: oxidising agents, reducing agents.

10.6. Hazardous decomposition products

AMMONIA

May develop: nitric oxide.

TOLUENE-2,5-DIAMINE SULFATE

When heated to decomposition releases: nitric oxide, carbon oxides, sulphur oxides.

P-PHENYLENEDIAMINE

When heated to decomposition releases: carbon oxides, nitric oxide.

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE

When heated to decomposition releases: nitric oxide, carbon oxides, sulphur oxides.

2-AMINO-3-HYDROXYPYRIDINE

When heated to decomposition releases: nitric oxide,carbon oxides.

5-AMINO-6-CHLORO-o-CRESOL

When heated to decomposition releases: nitric oxide,carbon oxides.

4-AMINO-2-HYDROXYTOLUENE

When heated to decomposition releases: nitric oxide,carbon oxides.

p-AMINOPHENOL

When heated to decomposition releases: carbon oxides,nitric oxide.

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

Scaldato a decomposizione emette: ossidi di azoto ossidi di carbonio ossidi di zolfo ammine aromatiche ammoniaci

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

When heated to decomposition releases: nitric oxide,carbon oxides,sulphur oxides.

HC RED NO. 3

When heated to decomposition releases: nitric oxide,carbon oxides,sulphur oxides.

1-NAPHTHOL

When heated to decomposition releases: toxic fumes.

m-AMINOPHENOL

In decomposition develops: carbon dioxide,carbon monoxide,nitrogen gas.

4-AMINO-m-CRESOL

When heated to decomposition releases: nitric oxide,carbon oxides.

BASIC ORANGE 31

When heated to decomposition releases: nitric oxide,carbon oxides.

PHENYL METHYL PYRAZOLONE

When heated to decomposition releases: carbon dioxide,carbon monoxide,nitrogen gas,hydrogen cyanide.

4-CHLORORESORCINOL

Scaldato a decomposizione emette: gas/vapori tossici gas/vapori irritanti acido cloridrico monossido di carbonio anidride carbonica

2,4-DIAMINOPHENOXYETHANOL HCl ok

When heated to decomposition releases: carbon oxides,nitric oxide.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:

> 5 mg/l

LD50 (Oral) of the mixture:

1758,43 mg/kg

LD50 (Dermal) of the mixture:

>2000 mg/kg

2,4-DIAMINOPHENOXYETHANOL HCl ok

LD50 (Oral) 1000 mg/kg Rat

P-PHENYLENEDIAMINE

LD50 (Oral) 80 mg/kg Rat

PHENYL METHYL PYRAZOLONE

LD50 (Oral) > 2000 mg/kg Ratto

2-METHYLRESORCINOL

LD50 (Oral) 200 mg/kg Rat

RESORCINOL

LD50 (Oral) 301 mg/kg Rat

LD50 (Dermal) 3360 mg/kg Rabbit

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE

LD50 (Oral) > 2000 mg/kg Rat

4-CHLORORESORCINOL

LD50 (Oral) 369 mg/kg Rat

2-AMINO-3-HYDROXYPYRIDINE

LD50 (Oral) 500 mg/kg Rat

5-AMINO-6-CHLORO-o-CRESOL

LD50 (Oral) 1360 mg/kg ratto

TOLUENE-2,5-DIAMINE SULFATE

LD50 (Oral) 98 mg/kg Rat

LD50 (Dermal) 1100 mg/kg

LC50 (Inhalation) 1,5 mg/l

BASIC ORANGE 31

LD50 (Oral) > 2000 mg/kg Rat

1-NAPHTHOL

LD50 (Oral) 1000 mg/kg Topo

LD50 (Dermal) 800 mg/kg Coniglio

TINTURA MOOD COLOR 100 ML

LC50 (Inhalation) 420 mg/m³/1h

4-AMINO-m-CRESOL

LD50 (Oral) > 870 mg/kg Rat

LD50 (Dermal) 2409 mg/kg

GLYCERIN

LD50 (Oral) 10 mg/kg guinea pigs

HC RED NO. 3

LD50 (Oral) > 500 mg/kg Topo

4-AMINO-2-HYDROXYTOLUENE

LD50 (Oral) 3600 mg/kg Rat

m-AMINOPHENOL

LD50 (Oral) 924 mg/kg Rat

LD50 (Dermal) 3437,57 mg/kg Rabbit

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

LD50 (Oral) 107 mg/kg Rat

LD50 (Dermal) 428 mg/kg

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

LD50 (Oral) 327 mg/kg Topo

LD50 (Dermal) > 5000 mg/kg Coniglio

p-AMINOPHENOL

LD50 (Oral) 375 mg/kg Rat

LD50 (Dermal) 37 mg/kg Gatto

TINTURA MOOD COLOR 100 ML

LC50 (Inhalation) 3,42 mg/l/4h

AMMONIA

LD50 (Oral) 350 mg/kg Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

May produce an allergic reaction. Contains: 2,4-DIAMINOPHENOXYETHANOL HCl ok

PHENYL METHYL PYRAZOLONE

BASIC ORANGE 31

4-AMINO-m-CRESOL

1-NAPHTHOL

2-METHYLRESORCINOL

HC RED NO. 3

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

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

GERM CELL MUTAGENICITY

Suspected of causing genetic defects

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause damage to organs

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

P-PHENYLENEDIAMINE

LC50 - for Fish	0,028 mg/l/96h
EC50 - for Crustacea	160 µg/l/48h Daphnia magna
Chronic NOEC for Crustacea	0,589 µg/L

2-METHYLRESORCINOL

LC50 - for Fish	58,1 mg/l/96h
EC50 - for Crustacea	0,605 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	71 mg/l/72h Pseudokirchnerella subcapitata
Chronic NOEC for Crustacea	0,31 mg/l Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	2,49 mg/l Pseudokirchnerella subcapitata

RESORCINOL

LC50 - for Fish	26,8 mg/l/96h
EC50 - for Crustacea	1 mg/l/48h Daphnia
EC50 - for Algae / Aquatic Plants	97 mg/l/72h

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE

LC50 - for Fish	> 130 mg/l/96h Pesce Zebra
EC50 - for Crustacea	11,1 mg/l/48h
EC50 - for Algae / Aquatic Plants	5,33 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	1,8 mg/l

4-CHLORORESORCINOL

EC50 - for Crustacea	17,598 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	54,606 mg/l/72h Pseudokirchnerella subcapitata

2-AMINO-3-HYDROXYPYRIDINE

EC50 - for Crustacea	24,6 mg/l/48h
Chronic NOEC for Algae / Aquatic Plants	0,585 mg/l

5-AMINO-6-CHLORO-o-CRESOL

EC50 - for Crustacea	3,53 mg/l/48h
EC50 - for Algae / Aquatic Plants	6,73 mg/l/72h

TOLUENE-2,5-DIAMINE SULFATE

EC50 - for Crustacea	< 1 mg/l/48h Daphnia magna
Chronic NOEC for Crustacea	0,63 mg/l Daphnia magna

TINTURA MOOD COLOR 100 ML

1-NAPHTHOL

LC50 - for Fish 4,2 mg/l/96h

EC50 - for Crustacea 3,5 mg/l/48h

4-AMINO-m-CRESOL

LC50 - for Fish 0,42 mg/l/48h

EC50 - for Crustacea 0,2 mg/l/48h

EC50 - for Algae / Aquatic Plants 0,035 mg/l/72h

GLYCERIN

LC50 - for Fish > 1000 mg/l/96h

HC RED NO. 3

LC50 - for Fish > 100 mg/l/96h Danio rerio/

EC50 - for Crustacea 4,2 mg/l/48h Daphnia magna

4-AMINO-2-HYDROXYTOLUENE

LC50 - for Fish 25 mg/l/96h

EC50 - for Crustacea 2,3 mg/l/48h

EC50 - for Algae / Aquatic Plants 41 mg/l/72h

Chronic NOEC for Algae / Aquatic Plants 3,3 mg/l

m-AMINOPHENOL

EC50 - for Crustacea 17,598 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 54,606 mg/l/72h

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

LC50 - for Fish > 235 mg/l/96h

EC50 - for Crustacea 0,38 mg/l/48h

EC50 - for Algae / Aquatic Plants 0,34 mg/l/72h

Chronic NOEC for Algae / Aquatic Plants 0,67 mg/l

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

LC50 - for Fish 10 mg/l/96h

EC50 - for Crustacea 28 mg/l/48h

p-AMINOPHENOL

LC50 - for Fish 1,2 mg/l/96h

EC50 - for Crustacea 0,032 mg/l/48h

AMMONIA

LC50 - for Fish 47 mg/l/96h Channa punctata

EC50 - for Crustacea

20 mg/l/48h Daphnia magna

12.2. Persistence and degradability

2,4-DIAMINOPHENOXYETHANOL HCl ok

Solubility in water

425000 mg/l

Degradability: information not available

P-PHENYLENEDIAMINE

Rapidly degradable

PHENYL METHYL PYRAZOLONE

Degradability: information not available

RESORCINOL

Rapidly degradable

1-HYDROXYETHYL 4,5-DIAMINO
PYRAZOLE SULFATE

Solubility in water

666000 mg/l

NOT rapidly degradable

4-CHLORORESORCINOL

Degradability: information not available

2-AMINO-3-HYDROXYPYRIDINE

Solubility in water

49630 mg/l

Degradability: information not available

5-AMINO-6-CHLORO-o-CRESOL

NOT rapidly degradable

TOLUENE-2,5-DIAMINE SULFATE

NOT rapidly degradable

BASIC ORANGE 31

Degradability: information not available

1-NAPHTHOL

Degradability: information not available

TINTURA MOOD COLOR 100 ML

4-AMINO-m-CRESOL

Solubility in water

510 mg/l

Degradability: information not available

HC RED NO. 3

Degradability: information not available

4-AMINO-2-HYDROXYTOLUENE

Solubility in water

4112 mg/l

NOT rapidly degradable

m-AMINOPHENOL

Degradability: information not available

N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE
NOT rapidly degradable2-AMINO-4-HYDROXYETHYLAMINOANISOLE
SULFATE

Degradability: information not available

AMMONIA

Entirely degradable

12.3. Bioaccumulative potential

2,4-DIAMINOPHENOXYETHANOL HCl ok

Partition coefficient: n-octanol/water

0,9 Log Kow

P-PHENYLENEDIAMINE

Partition coefficient: n-octanol/water

-0,31 Log Kow

PHENYL METHYL PYRAZOLONE

Partition coefficient: n-octanol/water

0,74 Log Kow a 24 °C, pH 7,2

2-METHYLRESORCINOL

Partition coefficient: n-octanol/water

1,58 Log Kow

TINTURA MOOD COLOR 100 ML

1-HYDROXYETHYL 4,5-DIAMINO
PYRAZOLE SULFATE

Partition coefficient: n-octanol/water -1,75 Log Kow

4-CHLORORESORCINOL

Partition coefficient: n-octanol/water 0,96 Log Kow

2-AMINO-3-HYDROXYPYRIDINE

Partition coefficient: n-octanol/water < 3 Log Kow

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Partition coefficient: n-octanol/water -2,13 Log Kow

1-NAPHTHOL

Partition coefficient: n-octanol/water 2,7

4-AMINO-2-HYDROXYTOLUENE

Partition coefficient: n-octanol/water -0,53

m-AMINOPHENOL

Partition coefficient: n-octanol/water 0,17 Log Kow

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

Partition coefficient: n-octanol/water -0,77 Log Kow

2-AMINO-4-
HYDROXYETHYLAMINOANISOLE
SULFATE

Partition coefficient: n-octanol/water 59 Log Kow a 20°C, pH 7.5

p-AMINOPHENOL

Partition coefficient: n-octanol/water -0,25 Log Kow

AMMONIA

Partition coefficient: n-octanol/water -0,64 Log Kow

12.4. Mobility in soil

AMMONIA

Partition coefficient: soil/water 13,8 l/kg

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information**14.1. UN number**

ADR / RID, IMDG, 1760
IATA:

14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, N.O.S.
IMDG: CORROSIVE LIQUID, N.O.S.
IATA: CORROSIVE LIQUID, N.O.S.

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8
IMDG: Class: 8 Label: 8
IATA: Class: 8 Label: 8

**14.4. Packing group**

ADR / RID, IMDG, III
IATA:

14.5. Environmental hazards

ADR / RID: Environmentally
Hazardous
IMDG: Marine Pollutant
IATA: NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 5 L	Tunnel restriction code: (E)
IMDG:	Special Provision: - EMS: F-A, S-B	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 856
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 852
	Special Instructions:	A3, A803	

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EC: E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006Product

Point 3

Contained substance

Point	75	P-PHENYLENEDIAMINE
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Point	75	Phenol
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Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

TINTURA MOOD COLOR 100 ML

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Finished cosmetic products are excluded from EC Regulation 1907/2006 (REACH) as regards the safety data sheet requirements (art. 31 and 32) (2). Finished cosmetic products are completely excluded from the field of application of Regulation 1272/2008 (CLP) (3), as previously established by Directive 1999/45/EC on dangerous preparations (4), and as such are exempt from danger classification and labelling obligations and the provisions relating to safety data sheets [art. 1 (3) (c) of Regulation 1272/2008 and Directive 1999/45].

This Sheet is not to be regarded as a Safety Data Sheet but purely as a hygiene and safety information tool drafted to help employers fulfil the obligations of Leg. Decree 81/08. In fact, professional users are protected by Leg. Decree 81/08 as amended, which obliges employers to carry out a risk assessment for the health and safety of their workers (art. 28 Leg. Decree 81/08). This decree defines (heading IX, art. 222) as dangerous chemical agents not only the substances and mixtures that correspond to the classification criteria of the relevant laws, but also agents that may pose a risk to the health and safety of workers because of their chemical-physical, chemical or toxicological properties and the way in which they are used or present in the workplace, including chemical agents that have been assigned an occupational exposure limit value (art. 222 (1)(b)(3)). More specifically, Regulation 122/2009 defines the end user as a consumer or professional that uses the cosmetic product (1), making no distinction between these two figures.

1 (EC) Regulation no. 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products, article 2, paragraph 1, letter f.

2 (EC) Regulation no. 1907/2006 of the European Parliament and of the Council of 18 December 2006, concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

3 (EC) Regulation no. 1272/2008 of the European Parliament and of the Council of 16 December 2008 regarding the classification, labelling and packaging of substances and mixtures

4 Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Muta. 2	Germ cell mutagenicity, category 2
Acute Tox. 3	Acute toxicity, category 3
STOT SE 1	Specific target organ toxicity - single exposure, category 1
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
STOT SE 2	Specific target organ toxicity - single exposure, category 2

TINTURA MOOD COLOR 100 ML

Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H341	Suspected of causing genetic defects.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H371	May cause damage to organs.
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.
H413	May cause long lasting harmful effects to aquatic life.
EUH031	Contact with acids liberates toxic gas.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
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 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.