

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: 0017
Product name: MOOD DEMI DOUBLE 100 ml

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

Identified Uses	Industrial	Professional	Consumer
oxydative hair dyes	✓	-	-

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

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)

EU-wide emergency number: 112

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 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

MOOD DEMI DOUBLE 100 ml

Hazard classification and indication:

Acute toxicity, category 4	H302	Harmful if swallowed.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, category 2	H371	May cause damage to organs.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	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:

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H371	May cause damage to organs.
H411	Toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

Precautionary statements:

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear protective gloves / eye protection / face protection.
P310	Immediately call a POISON CENTER / doctor / . . .
P273	Avoid release to the environment.
P391	Collect spillage.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains:

ETHANOLAMINE
P-PHENYLENEDIAMINE
RESORCINOL
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE
2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE
4-CHLORORESORCINOL
m-AMINOPHENOL
CITRUS AURANTIUM DULCIS FRUIT EXTRACT
TOLUENE-2,5-DIAMINE SULFATE
2-METHYLRESORCINOL

MOOD DEMI DOUBLE 100 ml

1-NAPHTHOL
 4-AMINO-2-HYDROXYTOLUENE
 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE
 p-AMINOPHENOL

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
ETHANOLAMINE		
CAS 141-43-5	$4 \leq x < 4,5$	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335
EC 205-483-3		STOT SE 3 H335: $\geq 5\%$
INDEX 603-030-00-8		STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l, STA Inhalation mists/powders: 1,5 mg/l
P-PHENYLENEDIAMINE		
CAS 106-50-3	$2,5 \leq x < 3$	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		LD50 Oral: 80 , STA Dermal: 300 mg/kg, STA Inhalation mists/powders: 0,501 mg/l
INDEX 612-028-00-6		
m-AMINOPHENOL		
CAS 591-27-5	$1,5 \leq x < 2$	Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Sens. 1A H317, Aquatic Chronic 2 H411
EC 209-711-2		LD50 Oral: 924 , STA Inhalation mists/powders: 1,5 mg/l
INDEX 612-127-00-4		
REACH Reg. 01-2119930678-27-XXXX		
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE SULFATE		
CAS 54381-16-7	$1,5 \leq x < 2$	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		LD50 Oral: 107 , LD50 Dermal: 428 , STA Inhalation mists/powders: 0,501 mg/l
INDEX -		
POLYQUATERNIUM-22		
CAS 53694-17-0	$1 \leq x < 1,5$	Aquatic Chronic 3 H412
EC		
INDEX -		
2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE		
CAS 83763-48-8	$1 \leq x < 1,5$	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

MOOD DEMI DOUBLE 100 ml

EC 280-734-8

LD50 Oral: 327

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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
LD50 Oral: 301

EC 203-585-2

INDEX 604-010-00-1

REACH Reg. 01-2119480136-40-XXXX

4-CHLORORESORCINOL

CAS 95-88-5

 $0,6 \leq x < 0,7$

Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1A H317

EC 202-462-0

LD50 Oral: 369

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**1-HYDROXYETHYL 4,5-DIAMINO
PYRAZOLE SULFATE**

CAS 155601-30-2

 $0,5 \leq x < 0,6$

Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 429-300-3

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p-AMINOPHENOL

CAS 123-30-8

 $0,5 \leq x < 0,6$ 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
LD50 Oral: 375 mg/l/4h, LC50 Inhalation mists/powders: 3,42 mg/l/4h

EC 204-616-2

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REACH Reg. 01-2119535388-31-XXXX

4-AMINO-2-HYDROXYTOLUENE

CAS 2835-95-2

 $0,5 \leq x < 0,6$

Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 220-618-6

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REACH Reg. 01-2120766272-54-XXXX

1-NAPHTHOL

CAS 90-15-3

 $0,354 \leq x < 0,404$ 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
LD50 Oral: 1000 mg/m3/1h, LD50 Dermal: 800 mg/m3/1h

EC 201-969-4

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2-METHYLRESORCINOL

CAS 608-25-3

 $0,3 \leq x < 0,35$ 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
LD50 Oral: 200

EC 210-155-8

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REACH Reg. 01-2120030526-64-XXXX

TOLUENE-2,5-DIAMINE SULFATE

CAS 615-50-9

 $0,15 \leq x < 0,2$ Acute Tox. 3 H301, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Sens. 1 H317, Aquatic Chronic 2 H411
LD50 Oral: 98 mg/l, LD50 Dermal: 1100 mg/l, LC50 Inhalation mists/powders: 1,5 mg/l

EC 210-431-8

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REACH Reg. 01-2119962199-25-XXXX

CITRUS AURANTIUM DULCIS**FRUIT EXTRACT**

CAS 8028-48-6

 $0 \leq x < 0,05$

Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 232-433-8

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REACH Reg. 01-2119493353-35

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**

Not specifically necessary. Observance of good industrial hygiene is recommended.

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**

Use breathing equipment if fumes or powders are released into the air. 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

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. 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.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. 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:

ESP	España	Límites de exposición profesional para agentes químicos en España 2021
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; 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 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

ETHANOLAMINE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	2,5	1	7,5	3	SKIN
VLEP	ITA	2,5	1	7,6	3	SKIN
WEL	GBR	2,5	1	7,6	3	SKIN
OEL	EU	2,5	1	7,6	3	SKIN

PIDIELLE S.p.A.						Revision nr. 2			
MOOD DEMI DOUBLE 100 ml						Dated 28/03/2022			
						Printed on 28/03/2022			
						Page n. 7/27			
						Replaced revision:1 (Dated: 28/03/2022)			
TLV-ACGIH									
7,5									
3									
15									
6									
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									
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									
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									
0,4 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									

MOOD DEMI DOUBLE 100 ml

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				0,9 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

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

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**

Properties	Value	Information
Appearance	cream	
Colour	white - yellowish	
Odour	characteristic	
Odour threshold	Not determined	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Flammability	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Flash point	> 60 °C	
Auto-ignition temperature	Not available	
pH	9,5 - 11	
Kinematic viscosity	30.000 - 200.000	
Dynamic viscosity	Not determined	
Solubility	Not available	
Partition coefficient: n-octanol/water	Not determined	
Vapour pressure	Not applicable	
Density and/or relative density	0,97 - 0,99	
Relative vapour density	Not applicable	
Particle characteristics	Not applicable	

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

Information not available

9.2.2. Other safety characteristics

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.

1,2-PROPANEDIOL

Hygroscopic. Stable in normal conditions of use and storage.

At high temperatures it tends to oxidate to form propionaldehyde and lactic and acetic acid.

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.

1,2-PROPANEDIOL

May react dangerously with: acid chlorides, acid anhydrides, oxidising agents.

ETHANOLAMINE

May react dangerously with: acrylonitrile, chloroepoxypropane, chlorosulphuric acid, hydrogen chloride, iron-sulphur compounds, acetic acid, acetic anhydride, mesityl oxide, nitric acid, sulphuric acid, strong acids, vinyl acetate, cellulose nitrate.

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

Possibility of explosion.

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

ETHANOLAMINE

Avoid exposure to: air, sources of heat.

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

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

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

POLYQUATERNIUM-22

Evitare l'esposizione a: gelo

Keep away from: alkalis, strong oxidising agents.

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

Avoid exposure to: sources of heat, moisture.

p-AMINOPHENOL

Avoid exposure to: air, light.

4-AMINO-2-HYDROXYTOLUENE

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

1-NAPHTHOL

Avoid exposure to: air, light, moisture.

10.5. Incompatible materials

ETHANOLAMINE

Incompatible with: iron, strong acids, strong oxidants.

P-PHENYLENEDIAMINE

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

m-AMINOPHENOL

Keep away from: acids, oxidising substances.

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.

4-CHLORORESORCINOL

Keep away from: acids, oxidising agents.

p-AMINOPHENOL

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

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE

Keep away from: oxidising agents, reducing agents.

1-NAPHTHOL

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

2-METHYLRESORCINOL

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

TOLUENE-2,5-DIAMINE SULFATE

Keep away from: oxidising agents, reducing agents.

10.6. Hazardous decomposition products**1,2-PROPANEDIOL**

May develop: carbon oxides.

ETHANOLAMINE

May develop: nitric oxide, carbon oxides.

P-PHENYLENEDIAMINE

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

m-AMINOPHENOL

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

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

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

POLYQUATERNIUM-22

Scaldato a decomposizione emette: ossidi di carbonio gas/vapori tossici ossidi di azoto cloruro di idrogeno composti del cloro

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

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

4-CHLORORESORCINOL

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

p-AMINOPHENOL

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.

4-AMINO-2-HYDROXYTOLUENE

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

1-NAPHTHOL

When heated to decomposition releases: toxic fumes.

TOLUENE-2,5-DIAMINE SULFATE

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

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 hazard classes as defined in Regulation (EC) No 1272/2008Metabolism, 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

MOOD DEMI DOUBLE 100 ml

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Inhalation - gas) of the mixture:	0,0 mg/l
ATE (Oral) of the mixture:	1238,89 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

1,2-PROPANEDIOL

LD50 (Dermal):	20800 mg/kg Rat
LD50 (Oral):	20800 mg/kg Rat

ETHANOLAMINE

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation mists/powders):	1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation vapours):	11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

P-PHENYLENEDIAMINE

STA (Dermal):	300 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	80 mg/kg Rat

m-AMINOPHENOL

LD50 (Dermal):	3437,57 mg/kg Rabbit
LD50 (Oral):	924 mg/kg Rat

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

LD50 (Dermal):	428 mg/kg
LD50 (Oral):	107 mg/kg Rat

POLYQUATERNIUM-22

LD50 (Dermal):	> 5000 mg/kg coniglio
LD50 (Oral):	> 5000 mg/kg Rat

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

LD50 (Dermal):	> 5000 mg/kg Coniglio
LD50 (Oral):	327 mg/kg Topo

RESORCINOL

LD50 (Dermal): 3360 mg/kg Rabbit
LD50 (Oral): 301 mg/kg Rat

4-CHLORORESORCINOL

LD50 (Oral): 369 mg/kg Rat

p-AMINOPHENOL

LD50 (Dermal): 37 mg/kg Gatto
LD50 (Oral): 375 mg/kg Rat
LC50 (Inhalation mists/powders): 3,42 mg/l/4h

1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE

LD50 (Oral): > 2000 mg/kg Rat

4-AMINO-2-HYDROXYTOLUENE

LD50 (Oral): 3600 mg/kg Rat

1-NAPHTHOL

LD50 (Dermal): 800 mg/kg Coniglio
LD50 (Oral): 1000 mg/kg Topo
LC50 (Inhalation mists/powders): 420 mg/m3/1h

2-METHYLRESORCINOL

LD50 (Oral): 200 mg/kg Rat

TOLUENE-2,5-DIAMINE SULFATE

LD50 (Dermal): 1100 mg/kg
LD50 (Oral): 98 mg/kg Rat
LC50 (Inhalation mists/powders): 1,5 mg/l

CITRUS AURANTIUM DULCIS FRUIT EXTRACT

LD50 (Dermal): > 2000 mg/kg RABBIT
LD50 (Oral): > 2000 mg/kg RAT

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

May cause damage to organs

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

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

POLYQUATERNIUM-22

LC50 - for Fish	> 10 mg/l/96h
EC50 - for Crustacea	> 10 mg/l/48h

TOLUENE-2,5-DIAMINE SULFATE

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

1-NAPHTHOL

LC50 - for Fish	4,2 mg/l/96h
EC50 - for Crustacea	3,5 mg/l/48h

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

1,2-PROPANEDIOL

LC50 - for Fish	40613 mg/l/96h
EC50 - for Crustacea	18800 mg/l/48h
EC50 - for Algae / Aquatic Plants	19000 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	13020 mg/l

12.2. Persistence and degradability

P-PHENYLENEDIAMINE

Rapidly degradable

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

POLYQUATERNIUM-22

Degradability: information not available

TOLUENE-2,5-DIAMINE SULFATE

NOT rapidly degradable

1-NAPHTHOL

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 degradable

2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE

Degradability: information not available

1,2-PROPANEDIOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

ETHANOLAMINE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

P-PHENYLENEDIAMINE

Partition coefficient: n-octanol/water -0,31 Log Kow

MOOD DEMI DOUBLE 100 ml

2-METHYLRESORCINOL

Partition coefficient: n-octanol/water 1,58 Log Kow

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

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

1,2-PROPANEDIOL

Partition coefficient: n-octanol/water -1,07

BCF 0,09

ETHANOLAMINE

Partition coefficient: n-octanol/water -2,3

12.4. Mobility in soil

1,2-PROPANEDIOL

Partition coefficient: soil/water 0,46

ETHANOLAMINE

Partition coefficient: soil/water -0,5646

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 $\geq$ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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 or ID number**

ADR / RID, IMDG, 3082

IATA:

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to IATA

MOOD DEMI DOUBLE 100 ml

dangerous goods
regulations.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (P-PHENYLENEDIAMINE; m-AMINOPHENOL)
 IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (P-PHENYLENEDIAMINE; m-AMINOPHENOL)
 IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (P-PHENYLENEDIAMINE; m-AMINOPHENOL)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: Environmentally
Hazardous

IMDG: Marine Pollutant

IATA: Environmentally
Hazardous



14.6. Special precautions for user

ADR / RID: HIN - Kemler: 90

Limited
Quantities: 5
L

Tunnel
restriction
code: (-)

IMDG: Special provision: -
EMS: F-A, S-F

Limited
Quantities: 5
L

IATA: Cargo:

Maximum
quantity: 450
L

Packaging
instructions:
964

Pass.:

Maximum
quantity: 450
L

Packaging
instructions:
964

Special provision:

A97, A158,
A197, A215

14.7. Maritime transport in bulk according to IMO instruments

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/EU: E2

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

Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

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:

Flam. Liq. 3	Flammable liquid, category 3
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
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1A	Skin sensitization, category 1A
STOT SE 2	Specific target organ toxicity - single exposure, category 2
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
H226	Flammable liquid and vapour.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

MOOD DEMI DOUBLE 100 ml

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.
EUH031	Contact with acids liberates toxic gas.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) 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
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII 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.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

16.