



Selita srl
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SAFETY DATA SHEET

Revision nr. 002 data 26/08/2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

CODE: S007395
Product name: InLei® NATURAL BLONDE - TINTA BIONDO NATURALE PER CIGLIA E SOPRACCIGLIA CON OLIO DI ARGAN

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

IDENTIFIED USES	INDUSTRIAL	PROFESSIONAL	CONSUMER
PC39 Cosmetics, personal care products	✓	✓	✓

1.3 Details of the supplier of the safety data sheet

Name: Selita srl
Full address: via Nicolò Rezzara, 15
District and Country: 24020 Ranica (BG)
ITALY
Phone: +39 035 511355
Mobile: +39 389 5618546
Customer care: info@inlei.it

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.



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Hazard classification and indication:

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful 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:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.
EUH208	Contains: 4-CHLORORESORCINOL 2-methylresorcinol 2-methyl-p-phenylenediamine sulphate May produce an allergic reaction.

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.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.

Contains: ETHANOLAMINE
Amides, coco, N-(hydroxyethyl)



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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%.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classificazione 1272/2008 (CLP)
Alcohols, -C16-18		
INDEX	$12 \leq x < 13,5$	Aquatic Chronic 3 H412
EC	267-008-6	
CAS	67762-27-0	
REACH Reg.	01-2120092297-47-xxxx	
Alcohols, C16-18, ethoxylated		
INDEX	$7 \leq x < 8$	Eye Irrit. 2 H319, Aquatic Chronic 3 H412
EC	500-212-8	
CAS	68439-49-6	
Amides, coco, N-(hydroxyethyl)		
INDEX	$1,5 \leq x < 2$	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 2 H411
EC	268-770-2	
CAS	68140-00-1	
REACH Reg.	01-2119490101-51-XXXX	
ETHANOLAMINE		
NDEX	$603-030-00-8 \quad 1,5 \leq x < 2$	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412
EC	205-483-3	STOT SE 3 H335: $\geq 5\%$
CAS	141-43-5	LD50 Oral: 1089 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l
REACH Reg.	01-2119486455-28-xxxx	
2-methyl-p-phenylenediamine sulphate		
INDEX	$612-030-00-7 \quad 0,5 \leq x < 0,6$	Acute Tox. 3 H301, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC	210-431-8	ATE Orale: 100 mg/kg, ATE Cutanea: 1100 mg/kg, ATE Inhalation mists/powders: 1,5 mg/l
CAS	615-50-9	
REACH Reg.	01-2119962199-25-xxxx	
2-methylresorcinol		
INDEX	$0,2 \leq x < 0,25$	Acute Tox. 3 H301, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1
EC	210-155-8	ATE Oral: 100 mg/kg
CAS	608-25-3	
REACH Reg.	01-2120030526-64-0001	

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4-CHLORORESORCINOL

INDEX $0,15 \leq x < 0,2$

Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,
Skin Sens. 1B H317, Aquatic Chronic 2 H411
ATE Oral: 500 mg/kg

EC 202-462-0

CAS 95-88-5

REACH Reg. 01-2120751205-62-0001

ETHYL ACETATE

INDEX 607-022-00-5 $0 < x < 0,05$

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336,
EUH066

EC 205-500-4

CAS 141-78-6

REACH Reg. 01-2119475103-46-xxxx

ISOBUTYL ACETATE

INDEX 607-026-00-7 $0 < x < 0,05$

Flam. Liq. 2 H225, EUH066, Classification note according
to Annex VI to the CLP Regulation: C

EC 203-745-1

CAS 110-19-0

REACH Reg. 01-2119488971-22-XXXX

TOLUENE

INDEX 601-021-00-3 $0 < x < 0,05$

Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304,
STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336,
Aquatic Chronic 3 H412

EC 203-625-9

CAS 108-88-3

REACH Reg. 01-2119471310-51-XXXX

METHANOL

INDEX 603-001-00-X $0 < x < 0,05$

Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311,
Acute Tox. 3 H331, STOT SE 1 H370
STOT SE 2 H371: $\geq 3\% - < 10\%$
ATE Orale: 100 mg/kg, ATE Dermal: 300 mg/kg, ATE
Inhalation vapours: 3 mg/l

EC 200-659-6

CAS 67-56-1

BENZENE

INDEX 601-020-00-8 $0 < x < 0,05$

Flam. Liq. 2 H225, Carc. 1A H350, Muta. 1B H340, STOT
RE 1 H372, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin
Irrit. 2 H315, Aquatic Chronic 3 H412

EC 200-753-7

CAS 71-43-2

PHENOL

INDEX 604-001-00-2 $0 < x < 0,05$

Muta. 2 H341, Acute Tox. 3 H301, Acute Tox. 3 H311,
Acute Tox. 3 H331, STOT RE 2 H373, Skin Corr. 1B
H314, Eye Dam. 1 H318
Skin Corr. 1B H314: $\geq 3\%$, Skin Irrit. 2 H315: $\geq 1\% -$
 $< 3\%$
ATE Orale: 100 mg/kg, ATE Cutanea: 300 mg/kg, ATE
Inhalation mists/powders: 0,501 mg/l

EC 203-632-7

CAS 108-95-2

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



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4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

4.2 Most important symptoms and effects, both acute and delayed

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER / doctor

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.



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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).

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.



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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.

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

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



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Regulatory references:

DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France Décret n° 2021-1849 du 28 décembre 2021
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"»
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Direttiva (UE) 2022/431; Direttiva (UE) 2019/1831; Direttiva (UE) 2019/130; Direttiva (UE) 2019/983; Direttiva (UE) 2017/2398; Direttiva (UE) 2017/164; Direttiva 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Direttiva 2000/39/CE; Direttiva 98/24/CE; Direttiva 91/322/CEE.
	TLV-ACGIH	ACGIH 2023

BENZENE						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	3,25	1			SKIN
VLEP	FRA	3,25	1			SKIN
TLV	GRC	3,25	1			SKIN
VLEP	ITA	3,25	1			SKIN
TGG	NLD	0,7				SKIN
NDS/NDSch	POL	1,6				SKIN
WEL	GBR	3,25	1			SKIN
OEL	EU	3,25	1			SKIN



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Type	TOLUENE					
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	380	100	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
TLV	GRC	192	50	384	100	
VLEP	ITA	192	50			SKIN
TGG	NLD	150		384		
NDS/NDSch	POL	100		200		SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH			20			

METHANOL						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	130	100	260	200	SKIN
MAK	DEU	130	100	260	200	SKIN
VLA	ESP	266	200			SKIN
VLEP	FRA	260	200	1300	1000	SKIN 11
TLV	GRC	260	200	325	250	
VLEP	ITA	260	200			SKIN
TGG	NLD	133				SKIN
NDS/NDSch	POL	100		300		SKIN
WEL	GBR	266	200	333	250	SKIN
OEL	EU	260	200			
TLV-ACGIH		262	200	328	250	SKIN

ETHANOLAMINE						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	0,5	0,2	0,5	0,2	SKIN 11
MAK	DEU	0,51	0,2	0,51	0,2	
VLA	ESP	2,5	1	7,5	3	SKIN
VLEP	FRA	2,5	1	7,6	3	SKIN
TLV	GRC	2,5	1	7,6	3	
VLEP	ITA	2,5	1	7,6	3	SKIN
TGG	NLD	2,5		7,6		SKIN
NDS/NDSch	POL	2,5		7,5		SKIN
WEL	GBR	2,5	1	7,6	3	SKIN
OEL	EU	2,5	1	7,6	3	SKIN
TLV-ACGIH		7,5	3	15	6	



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ETHYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	730	200	1460	400	
MAK	DEU	750	200	1500	400	
VLA	ESP	734	200	1468	400	
VLEP	FRA	734	200	1468	400	
TLV	GRC	734	200	1468	400	
VLEP	ITA	734	200	1468	400	
TGG	NLD	734		1468		
NDS/NDSCh	POL	734		1468		
WEL	GBR	734	200	1468	400	
OEL	EU	734	200	1468	400	
TLV-ACGIH		1441	400			

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,24	mg/l
Normal value in marine water	0,024	mg/l
Normal value for fresh water sediment	1,15	mg/kg
Normal value for marine water sediment	0,115	mg/kg
Normal value for water, intermittent release	1,65	mg/l
Normal value of STP microorganisms	650	mg/l
Normal value for the terrestrial compartment	0,148	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				4,5 mg/kg bw/d				734 mg/kg bw/d
Inhalation				367 mg/m3	1468 mg/m3	1468 mg/m3		
Skin				37 mg/kg bw/d				63 mg/kg bw/d



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ISOBUTYL ACETATE						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	300	62	600	124	
MAK	DEU	480	100	960	200	
VLA	ESP	241	50	723	150	
VLEP	FRA	241	50	723	150	
TLV	GRC	950	200	950	200	
VLEP	ITA	241	50	723	150	
TGG	NLD	480				
NDS/NDSch	POL	240		720		
WEL	GBR	724	150	903	187	
OEL	EU	241	50	723	150	
TLV-ACGIH			50		150	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,17	mg/l
Normal value in marine water	0,017	mg/l
Normal value for fresh water sediment	0,877	mg/kg
Normal value for marine water sediment	0,088	mg/kg
Normal value for water, intermittent release	0,34	mg/l
Normal value of STP microorganisms	200	mg/l
Normal value for the terrestrial compartment	0,075	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effetti sui lavoratori			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				5 mg/kg bw/d				
Inhalation				35,7 mg/m3		600 mg/m3		300 mg/m3
Skin				5 mg/kg bw/d		10 mg/kg bw/d		10 mg/kg bw/d

PHENOL						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	8	2	16	4	SKIN 11
VLA	ESP	8	2	16	4	SKIN
VLEP	FRA	7,8	2	15,6	4	SKIN
TLV	GRC	8	2	16	4	
VLEP	ITA	8	2	16	4	SKIN
TGG	NLD	8				SKIN
NDS/NDSch	POL	7,8		16		SKIN
WEL	GBR	7,8	2	16	4	SKIN
OEL	EU	8	2	16	4	SKIN
TLV-ACGIH		19,2	5			SKIN



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Amides, coco, N-(hydroxyethyl)

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,007	mg/l
Normal value in marine water	0,0007	mg/l
Normal value for fresh water sediment	1,01	mg/kg
Normal value for marine water sediment	0,101	mg/kg
Normal value of STP microorganisms	830	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effetti sui lavoratori			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				6,25 mg/kg bw/d				
Inhalation				21,7 mg/m3				73,4 mg/m3
Skin			0,56 mg/cm2				0,09 mg/cm2	4,16 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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

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.



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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 ISO 16321).

RESPIRATORY PROTECTION

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. 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).

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Properties	Value
Appearance	Cream
Colour	Ivory
Odour	Characteristic
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
Decomposition temperature	Not available
pH	9,50 - 10,50



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Kinematic viscosity	20.000 - 40.000
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Density and/or relative density	0,925 - 0,975
Relative vapour density	Not available
Particle characteristics	Not applicable

9.2 Other information

INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

Information not available

OTHER SAFETY CHARACTERISTICS

Information not available

10. STABILITY AND REACTIVITY

Reactivity

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

TOLUENE

Avoid exposure to: light.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

ISOBUTYL ACETATE

Decomposes under the effect of heat. Attacks various types of plastic materials.

Chemical stability

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

Possibility of hazardous reactions

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

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TOLUENE

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

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.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

ISOBUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react violently with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

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.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

ISOBUTYL ACETATE

Avoid exposure to: sources of heat, naked flames.

Incompatible materials**ETHANOLAMINE**

Incompatible with: iron, strong acids, strong oxidants.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, chlorosulphuric acid.

ISOBUTYL ACETATE

Incompatible with: strong oxidants, nitrates, strong acids, strong bases.



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Hazardous decomposition products

ETHANOLAMINE

May develop: nitric oxide, carbon oxides.

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.

Metabolism, Toxicokinetics, Mechanism Of Action And Other Information

Information not available

Information On Likely Routes Of Exposure

TOLUENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

METHANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Delayed And Immediate Effects As Well As Chronic Effects From Short And Long-Term Exposure

TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

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Interactive Effects

TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: > 20 mg/l

ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: >2000 mg/kg

BENZENE

LD50 (Dermal): > 8260 mg/kg Rabbit

LD50 (Oral): 3340 mg/kg Rat

LC50 (Inhalation vapours): 43,7 mg/l/4h Rat

TOLUENE

LD50 (Dermal): 12124 mg/kg Rabbit

LD50 (Oral): 5580 mg/kg Rat

LC50 (Inalazione vapori): 28,1 mg/l/4h Rat

METHANOL

LC50 (Inhalation vapours): > 87,6 mg/l/4h Rat

ETHANOLAMINE

LD50 (Dermal): 2504 mg/kg

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)

LD50 (Oral): 1089 mg/kg Rat

LC50 (Inhalation vapours): > 1,3 mg/l/6h Rat

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)

ETHYL ACETATE

LD50 (Dermal): 20000 mg/kg Rabbit

LD50 (Oral): 4100 mg/kg Rat

ISOBUTYL ACETATE

LD50 (Dermal): 17400 mg/kg Rabbit

LD50 (Oral): 13413 mg/kg Rat

PHENOL

LD50 (Dermal): 660 mg/kg Rat

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): 282 mg/kg Rat

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Amides, coco, N-(hydroxyethyl)

LD50 (Cutanea): > 2000 mg/kg Rabbit

LD50 (Orale): > 3000 mg/kg Rat

2-methylresorcinol

LD50 (Oral): 200 mg/kg Rat

STA (Oral): 100 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)

4-CHLORORESORCINOL

LD50 (Dermal): 3437 mg/kg Rabbit

LD50 (Oral): 369 mg/kg Rat

2-methyl-p-phenylenediamine sulphate

LD50 (Dermal): > 5000 mg/kg Rabbit

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)

LD50 (Oral): 98 mg/kg Rat

STA (Oral): 100 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)

SKIN CORROSION / IRRITATION

Causes skin irritation

Amides, coco, N-(hydroxyethyl)

Corrosive to the skin .species: rabbit. Duration: 4h.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

Amides, coco, N-(hydroxyethyl)

Serious eye damage.

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

4-CHLORORESORCINOL

2-methylresorcinol

2-methyl-p-phenylenediamine sulphate



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GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

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

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.

12. ECOLOGICAL INFORMATION

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

12.1 Toxicity

BENZENE

LC50 - for Fish

630 mg/l/96h Fish



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ETHANOLAMINE

Chronic NOEC for Fish

1,2 mg/l *Oryzias latipes*

Chronic NOEC for Crustacea

0,85 mg/l *Daphnia magna*

ETHYL ACETATE

LC50 - for Fish

230 mg/l/96h *pimephales promelas*

EC50 - for Crustacea

717 mg/l/48h *daphnia magna*

EC50 - for Algae / Aquatic Plants

3300 mg/l/72h *scenedesmus subspicatus*

Chronic NOEC for Fish

9,65 mg/l *pimephales promelas*

Chronic NOEC for Crustacea

2,4 mg/l *daphnia magna*

ISOBUTYL ACETATE

Chronic NOEC for Crustacea

23,2 mg/l *DAPHNIA MAGNA*

Amides, coco, N-(hydroxyethyl)

LC50 - for Fish

> 3 mg/l/96h

EC50 - for Crustacea

3 mg/l/48h

EC50 - for Algae / Aquatic Plants

3,9 mg/l/72h

Chronic NOEC for Fish

0,32 mg/l

Chronic NOEC for Crustacea

0,07 mg/l

2-methylresorcinol

LC50 - for Fish

58,1 mg/l/96h *Zebrafish*

EC50 - for Crustacea

0,605 mg/l/48h *Daphnia magna*

Chronic NOEC for Algae / Aquatic Plants

2,49 mg/l *Pseudokirchneriella subcapitata*

4-CHLORORESORCINOL

LC50 - for Fish

64,1 mg/l/96h *Brachydanio rerio*

EC50 - for Crustacea

1,28 mg/l/48h *Daphnia magna*

EC10 for Crustacea

1,2 mg/l/48h *Daphnia magna*

Chronic NOEC for Algae / Aquatic Plants

3,01 mg/l *Pseudokirchneriella subcapitata*

2-methyl-p-phenylenediamine sulphate

LC50 - for Fish

1,08 mg/l/96h *Brachydanio rerio*

EC50 - for Crustacea

1,19 mg/l/48h *Daphnia magna*

EC50 - for Algae / Aquatic Plants

0,653 mg/l/72h *Desmodesmus subspicatus*
(previous name: *Scenedesmus subspicatus*)



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12.2 Persistence and degradability

BENZENE
Solubility in water 1000 - 10000 mg/l
Rapidly degradable

TOULENE
Solubility in water 100 - 10000 mg/l
Rapidly degradable

METHANOL
Solubility in water 1000 - 10000 mg/l
Rapidly degradable

ETHANOLAMINE
Solubility in water 1000 - 10000 mg/l
Rapidly degradable

ETHYL ACETATE
Solubility in water > 10000 mg/l
Rapidly degradable

ISOBUTYL ACETATE
Solubility in water 1000 - 10000 mg/l

PHENOL
Rapidly degradable

Amides, coco, N-(hydroxyethyl)
Rapidly degradable

2-methylresorcinol
Rapidly degradable

4-CHLORORESORCINOL
Rapidly degradable

2-methyl-p-phenylenediamine sulphate
Rapidly degradable

12.3 Bioaccumulative potential

BENZENE
Partition coefficient: n-octanol/water 2,13
BCF < 10

TOULENE
Partition coefficient: n-octanol/water 2,73
BCF 90

METHANOL
Partition coefficient: n-octanol/water -0,77
BCF 0,2



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ETHANOLAMINE	
Partition coefficient: n-octanol/water	-2,3
ETHYL ACETATE	
Partition coefficient: n-octanol/water	0,68
BCF	30
ISOBUTYL ACETATE	
Partition coefficient: n-octanol/water	2,3
BCF	15,3
PHENOL	
Partition coefficient: n-octanol/water	1,47

12.4 Mobility in soil

Information not available

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

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.

CONTAMINATED PACKAGING

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



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14. TRANSPORT INFORMATION

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

UN number or ID number

not applicable

UN proper shipping name

not applicable

Transport hazard class(es)

not applicable

Packing group

not applicable

Environmental hazards

not applicable

Special precautions for user

not applicable

Maritime transport in bulk according to IMO instruments

Information not relevant

15. REGULATORY INFORMATION

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

Seveso Category - Directive 2012/18/EU: None

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

Point 72

BENZENE



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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 been performed for the following contained substances:
ETHANOLAMINE

16.OTHER INFORMATION

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

Flam. Liq. 2	Flammable liquid, category 2
Carc. 1A	Carcinogenicity, category 1A
Muta. 1B	Germ cell mutagenicity, category 1B
Muta. 2	Germ cell mutagenicity, category 2
Repr. 2	Reproductive toxicity, 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 1	Specific target organ toxicity - repeated exposure, category 1
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C



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Skin Corr. 1	Skin corrosion, category 1
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. 1B	Skin sensitization, category 1B
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 2
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapour
H350	May cause cancer
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H361d	Suspected of damaging the unborn child
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
H372	Causes damage to organs through prolonged or repeated exposure
H304	May be fatal if swallowed and enters airways
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
H336	May cause drowsiness or dizziness
H371	May cause damage to organs
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
EUH031	Contact with acids liberates toxic gas
EUH066	Repeated exposure may cause skin dryness or cracking

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LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE / STA: 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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- 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

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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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15. Regulation (EU) 2019/521 (XII Atp. CLP)
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- 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.



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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.