

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code: P10447
Product name: ResinFIP_EPOBOND_F130_COMP-B
UFI : X4P0-F0AN-T008-D633

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

Intended use: THIXOTROPIC AMINO HARDENER

1.3. Details of the supplier of the safety data sheet

Name: Licata S.p.A.
Full address: Via dei Mille 32
District and Country: 00185 Roma (RM)
Italy
Tel.: +39 0922 856088
Fax: +39 0922 831427
e-mail address of the competent person responsible for the Safety Data Sheet: controllo-qualita@licataspa.it

1.4. Emergency telephone number

For urgent inquiries refer to:
NHS111in England: 111
NHS24in Scotland: 111
NHS Direct in Wales: 111 or 0845 4647
In an emergency, if the patient has collapsed or is not breathing properly, call 999

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.

Hazard classification and indication:

Reproductive toxicity, category 1B	H360F	May damage fertility.
Acute toxicity, category 4	H302	Harmful if swallowed.
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very 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:



Licata S.p.A.		Revision nr.8 Dated 06/08/2025 Printed on 06/08/2025 Page n. 2 / 17 Replaced revision:7 (Dated 07/03/2025)		EN
P10447 - ResinFIP_EPOBOND_F130_COMP-B				
SECTION 2. Hazards identification ... / >>				
Signal words:		Danger		
Hazard statements:		<div><div>H360F</div><div>H302</div><div>H314</div><div>H317</div><div>H410</div><div>EUH071</div></div> <div>May damage fertility. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects. Corrosive to the respiratory tract. Restricted to professional users.</div>		
Precautionary statements:		<div><div>P260</div><div>P201</div><div>P305+P351+P338</div><div>P303+P361+P353</div><div>P280</div><div>P310</div></div> <div>Do not breathe dust / fume / gas / mist / vapours / spray. Obtain special instructions before use. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wear protective gloves/ protective clothing / eye protection / face protection. Immediately call a POISON CENTER / doctor / . . .</div>		
Contains:		Alchilfenolo N-Aminoethylpiperazine Triethylenetetramine M-PHENYLENEBIS (METHYLAMINE)		
The product is classified both in acute and long-term aquatic hazard categories: it is possible to use only hazard statement H410 on the label.				
Product not intended for uses provided for by Directive 2004/42/EC.				
2.3. Other hazards				
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.				
The product contains substances with endocrine disrupting properties in concentration ≥ 0,1%: Alchilfenolo				
SECTION 3. Composition/information on ingredients				
3.2. Mixtures				
Contains:				
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)	
M-PHENYLENEBIS (METHYLAMINE)				
INDEX		16,5 ≤ x < 18	Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1B H317, Aquatic Chronic 3 H412, EUH071 LD50 Oral: 930 mg/kg, ATE Inhalation vapours: 11 mg/l	
EC		216-032-5		
CAS		1477-55-0		
REACH Reg.		01-2119480150-50-XXXX		
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL				
INDEX		603-069-00-0	7 ≤ x < 8	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315 ATE Oral: 500 mg/kg
EC		202-013-9		
CAS		90-72-2		
Triethylenetetramine				
INDEX		6 ≤ x < 7	Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412 LD50 Oral: 1716 mg/kg, LD50 Dermal: 1465 mg/kg	
EC		292-588-2		
CAS		90640-67-8		
REACH Reg.		01-2119487919-13-xxxx		

EPY 11.9.0 - SDS 1004.14

SECTION 3. Composition/information on ingredients ... / >>

AlchilfenoloINDEX 604-092-00-9 $5 \leq x < 6$

Repr. 1B H360F, Skin Corr. 1C H314, Eye Dam. 1 H318, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10

EC 310-154-3

CAS 121158-58-5

REACH Reg. 01-2119513207-49-XXXX

N-AminoethylpiperazineINDEX 612-105-00-4 $5 \leq x < 6$

Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC 205-411-0

CAS 140-31-8

REACH Reg. 01-2119471486-30-XXXX

DIPROPYLENE GLYCOL MONOMETHYL ETHERINDEX 0,7 $\leq x < 1$

Substance with a community workplace exposure limit.

EC 252-104-2

CAS 34590-94-8

REACH Reg. 01-2119450011-60-XXXX

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

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 immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Rinse your mouth with running water. 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.

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.

<div>Licata S.p.A.</div> <div>P10447 - ResinFIP_EPOBOND_F130_COMP-B</div>		<div>Revision nr.8 Dated 06/08/2025 Printed on 06/08/2025 Page n. 4 / 17 Replaced revision:7 (Dated 07/03/2025)</div> <div>EN</div>
SECTION 5. Firefighting measures ... / >>		
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		
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:		
DEU	Deutschland	WirkungDosisNOAELMAK-und BAT-Werte-Liste 2024 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe
ESP	España	Límites de exposición profesional para agentes químicos en España 2024
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
HRV	Hrvatska	PRAVILNIK O IZMJENAMA I DOPUNAMA PRAVILNIKA O ZAŠTITI RADNIKA OD
		<div>EPY 11.9.0 - SDS 1004.14</div>

SECTION 8. Exposure controls/personal protection ... / >>

Triethylenetetramine

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0268	mg/l
Normal value in marine water	0,00268	mg/l
Normal value for fresh water sediment	8,572	mg/kg
Normal value for marine water sediment	0,8572	mg/kg
Normal value for water, intermittent release	0,2	mg/l
Normal value for fresh water, intermittent release	0,02	mg/l
Normal value of STP microorganisms	0,13	mg/l
Normal value for the terrestrial compartment	1,25	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0,14				
				mg/kg bw/d				
Inhalation		0,096						0,540
		mg/m3						mg/m3

M-PHENYLENEBIS (METHYLAMINE)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
VLEP	FRA			0,1				
MV	SVN	0,1						

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,094	mg/l
Normal value in marine water	0,0094	mg/l
Normal value for fresh water sediment	12,4	mg/kg
Normal value for marine water sediment	1,24	mg/kg
Normal value for water, intermittent release	0,152	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	2,44	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation							0,2	1,2
							mg/m3	mg/m3
Skin								0,33
								mg/kg
								bw/d

SECTION 8. Exposure controls/personal protection ... / >>

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	310	50	310	50	11
MAK	DEU	310	50	310	50	
VLA	ESP	308	50			SKIN
VLEP	FRA	308	50			SKIN
GVI/KGVI	HRV	308	50			SKIN
VLEP	ITA	308	50			SKIN
MV	SVN	308	50	308	50	SKIN
WEL	GBR	308	50			SKIN
OEL	EU	308	50			SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	19	mg/l
Normal value in marine water	1,9	mg/l
Normal value for fresh water sediment	70,2	mg/kg
Normal value for marine water sediment	7,02	mg/kg
Normal value for water, intermittent release	190	mg/l
Normal value of STP microorganisms	4168	mg/l
Normal value for the terrestrial compartment	2,74	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				36				
				mg/kg bw/d				
Inhalation				37,2				308
				mg/m3				mg/m3
Skin				121				283
				mg/kg bw/d				mg/kg bw/d

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,046	mg/l
Normal value in marine water	0,0046	mg/l
Normal value for fresh water sediment	0,2621	mg/kg/d
Normal value for marine water sediment	0,02621	mg/kg/d
	1	
Normal value for water, intermittent release	0,46	mg/l
Normal value for fresh water, intermittent release	0,046	mg/l
Normal value of STP microorganisms	0,2	mg/l
Normal value for the terrestrial compartment	0,0254	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0,075				
				mg/kg bw/d				
Inhalation		0,130		0,130	2,1	2,1	2,1	0,530
		mg/m3		mg/m3		mg/m3		mg/m3
Skin		0,075		0,075	0,600	0,600	0,600	0,150
		mg/kg bw/d		mg/kg bw/d		mg/kg bw/d		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.

HAND PROTECTION

SECTION 8. Exposure controls/personal 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.

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).

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

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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	not available	
Colour	not available	
Odour	not available	
Melting point / freezing point	not available	
Initial boiling point	> 100 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 100 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	7-9	Method:pHmetro Mettler Toledo
Kinematic viscosity	not available	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,35	
Relative vapour density	not available	
Particle characteristics	not applicable	

Supplementary information for nanoforms

AMORPHOUS SILICATE HYDRATE (nanoform)

Denomination CAB-O-SIL M-5
 Other identifier Biossido di silicio,Silice sintetica Amorfa

Shape 1:

Category	spheroidal	
Shape	spherical	
D10	7 - 15	nm
D50	2 - 30	nm
D90	10 - 35	nm
Specific surface area by mass	50 - 450	m2/g

MINEMA 1-2-44

Shape 1:

D50	10	µm
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SECTION 9. Physical and chemical properties ... / >>**Crystallinity****Crystalline structure 1:****Surface functionalisation / treatment****Surface treatments 1:****9.2. Other information****9.2.1. Information with regard to physical hazard classes**

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 24,70 % - 333,45 g/litre

SECTION 10. Stability and reactivity**10.1. Reactivity**

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

N-Aminoethylpiperazine

Stable in normal conditions of use and storage.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Forms peroxides with: air.

10.2. Chemical stability

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

N-Aminoethylpiperazine

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.

Triethylenetetramine

It can generate flammable gases in contact with elementary metals (alkali and alkaline lands), strong reducing agents. It can generate toxic gases in contact with oxidizing mineral acids, halogen organic substances, peroxides and organic waterprovides, strong oxidizing agents. It can inflame in contact with strong oxidants.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react violently with: strong oxidising agents.

10.4. Conditions to avoid

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Avoid exposure to: sources of heat.Possibility of explosion.

10.5. Incompatible materials**N-Aminoethylpiperazine**

Incompatible with: oxidising agents,metals,Nitrous acid,nitric acid,Other nitrogen-forming agents,Combustible material.

10.6. Hazardous decomposition products

Information not available

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.

SECTION 11. Toxicological information ... / >>

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

N-Aminoethylpiperazine
 - 2-piperazin-1-ylethylamine (CAS 140-31-8):

Test: LD50 - Via: Skin - Species: Rabbit = 866-1260 mg / kg

Test: LD50 - Via: Oral - Species: Rat = 1470 to 2140 mg / kg

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

ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	1944,24 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

Corrosive to the respiratory tract.

MINEMA 1-2-44	
LD50 (Dermal):	> 2000 mg/kg Ratto
LD50 (Oral):	> 2000 mg/kg Ratto
LC50 (Inhalation mists/powders):	> 3 mg/l/4h Ratto

M-PHENYLENEBIS (METHYLAMINE)	
LD50 (Dermal):	> 3100 mg/kg Rat
LD50 (Oral):	930 mg/kg Rat - Sprague-Dawley
LC50 (Inhalation vapours):	1,34 mg/l/4h Ratto
ATE (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)

KAOLIN	
LD50 (Dermal):	> 2000 mg/kg Ratto
LD50 (Oral):	> 2000 mg/kg Ratto
LC50 (Inhalation mists/powders):	> 5,07 mg/l/4h Ratto

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	
LD50 (Oral):	2169 mg/kg RATTO
ATE (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)

Triethylenetetramine	
LD50 (Dermal):	1465 mg/kg Rabbit
LD50 (Oral):	1716 mg/kg Rat

Alchilfenolo	
LD50 (Dermal):	15000 mg/kg Rabbit
LD50 (Oral):	2140 mg/kg Rat

N-Aminoethylpiperazine	
LD50 (Dermal):	866 mg/kg Rabbit
ATE (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):	2140 mg/kg Rat
ATE (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)

SECTION 11. Toxicological information ... / >>

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LD50 (Dermal):	9510 mg/kg Coniglio
LD50 (Oral):	> 5000 mg/kg Ratto
LC50 (Inhalation vapours):	3,35 mg/l/7h Ratto

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

May damage fertility

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

11.2. Information on other hazards

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny:

Alchilfenolo

SECTION 12. Ecological information

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

12.1. Toxicity

MINEMA 1-2-44

LC50 - for Fish	> 100 mg/l/96h
Chronic NOEC for Algae / Aquatic Plants	> 14 mg/l

M-PHENYLENEBIS (METHYLAMINE)

LC50 - for Fish	87,6 mg/l/96h Oryzias latipes
EC50 - for Crustacea	15,2 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	26,8 mg/l/72h
Chronic NOEC for Crustacea	4,7 mg/l
Chronic NOEC for Algae / Aquatic Plants	16,7 mg/l

KAOLIN

LC50 - for Fish	> 1000 mg/l/96h
EC50 - for Crustacea	> 1000 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h

P10447 - ResinFIP_EPOBOND_F130_COMP-B**SECTION 12. Ecological information ... / >>****2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL**

LC50 - for Fish	100 mg/l/96h
EC50 - for Crustacea	100 mg/l/48h
EC50 - for Algae / Aquatic Plants	46,7 mg/l/72h
LC10 for Fish	100 mg/l/96h
EC10 for Crustacea	100 mg/l/48h
EC10 for Algae / Aquatic Plants	25,1 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	25,1 mg/l

Triethylenetetramine

LC50 - for Fish	330 mg/l/96h
EC50 - for Crustacea	31,1 mg/l/48h
EC50 - for Algae / Aquatic Plants	20 mg/l/72h
EC10 for Algae / Aquatic Plants	1,34 mg/l/72h
Chronic NOEC for Crustacea	18 mg/l
Chronic NOEC for Algae / Aquatic Plants	1,34 mg/l

Alchilfenolo

LC50 - for Fish	40 mg/l/96h
EC50 - for Crustacea	0,065 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,36 mg/l/72h
EC10 for Crustacea	0,056 mg/l/48h
EC10 for Algae / Aquatic Plants	0,07 mg/l/72h
Chronic NOEC for Fish	25 mg/l
Chronic NOEC for Crustacea	0,011 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,07 mg/l

N-Aminoethylpiperazine

LC50 - for Fish	2190 mg/l/96h
EC50 - for Crustacea	58 mg/l/48h
EC50 - for Algae / Aquatic Plants	1000 mg/l/72h
LC10 for Fish	1030 mg/l/96h
Chronic NOEC for Fish	1030 mg/l
Chronic NOEC for Crustacea	10 mg/l
- 2-piperazin-1-ylethylamine (CAS 140-31-8):	

Test: LC50 - Species: Fish - h Duration: 96 - mg / l: 1800

Te t: EC50 - Species: Daphnia - h Duration: 48 - mg / l: 58

Test: LC50 - Species: Algae - h Duration: 72 - mg / l: 494

Test: EC50 - Species: Algae - mg / l: 1000

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LC50 - for Fish	> 1000 mg/l/96h
EC50 - for Crustacea	1919 mg/l/48h Pulce d'acqua grande
Chronic NOEC for Crustacea	> 0,5 mg/l Pulce d'acqua grande

12.2. Persistence and degradability**MINEMA 1-2-44**

Solubility in water	50,05 mg/l 0,1-100
Degradability: information not available	Sostanza inorganica

M-PHENYLENEBIS (METHYLAMINE)

Solubility in water	100 mg/l
NOT rapidly degradable	

KAOLIN

Degradability: information not available	Sostanza inorganica
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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Solubility in water	850000 mg/l
NOT rapidly degradable	

Triethylenetetramine

Solubility in water	1000000 mg/l
NOT rapidly degradable	

SECTION 12. Ecological information ... / >>

Alchilfenolo
Solubility in water 1,54 mg/l
NOT rapidly degradable

N-Aminoethylpiperazine
Solubility in water 100000 mg/l
NOT rapidly degradable

DIPROPYLENE GLYCOL MONOMETHYL ETHER
Rapidly degradable 75%

12.3. Bioaccumulative potential

M-PHENYLENEBIS (METHYLAMINE)
Partition coefficient: n-octanol/water 0,18 Log Kow

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL
Partition coefficient: n-octanol/water 0,66 Log Kow

Triethylenetetramine
Partition coefficient: n-octanol/water -2,08 Log Kow

Alchilfenolo
Partition coefficient: n-octanol/water 7,14 Log Kow
BCF 823

N-Aminoethylpiperazine
Partition coefficient: n-octanol/water -1,48 Log Kow

DIPROPYLENE GLYCOL MONOMETHYL ETHER
Partition coefficient: n-octanol/water 0,006 Log Kow
BCF < 100

12.4. Mobility in soil

M-PHENYLENEBIS (METHYLAMINE)
Partition coefficient: soil/water 1,288

Triethylenetetramine
Partition coefficient: soil/water 3162,28

DIPROPYLENE GLYCOL MONOMETHYL ETHER
Partition coefficient: soil/water 0,28

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 contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on the environment and on animal species causing adverse effects on the exposed organisms or on their progeny:

Alchilfenolo

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.

SECTION 13. Disposal considerations ... / >>

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

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, IATA: UN 1760

14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, N.O.S. (M-PHENYLENEBIS (METHYLAMINE) ;
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)
IMDG: CORROSIVE LIQUID, N.O.S. (M-PHENYLENEBIS (METHYLAMINE) ;
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL ;Alchilfenolo)
IATA: CORROSIVE LIQUID, N.O.S. (M-PHENYLENEBIS (METHYLAMINE) ;
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)

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, IATA: II

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 Special provision: 274	Limited Quantities: 1 lt	Tunnel restriction code: (E)
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 lt	
IATA:	Cargo: Passengers: Special provision:	Maximum quantity: 30 L Maximum quantity: 1 L A3, A803	Packaging instructions: 855 Packaging instructions: 851

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: E1

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

Product

Point 3

Contained substance

Point 75

Point 30

Alchilfenolo

REACH Reg.: 01-2119513207-49-XXXX

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)

Alchilfenolo

REACH Reg.: 01-2119513207-49-XXXX

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

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

Repr. 1B	Reproductive toxicity, category 1B
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
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 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H360F	May damage fertility.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

P10447 - ResinFIP_EPOBOND_F130_COMP-B**SECTION 16. Other information ... / >>**

H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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
- 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
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)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
27. Delegated Regulation (UE) 2024/2564 (XXII Atp. CLP)

- The Merck Index. - 10th Edition

SECTION 16. Other information ... / >>

- 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:

02 / 03 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 16.