

**P10468 - FiberFIP ADESIVO 800 COMP.B****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: **P10468**  
Product name **FiberFIP ADESIVO 800 COMP.B**  
Chemical name and synonym **A FIP 800 Componente B**

UFI : **8521-90Y7-P00H-0YP4**

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

Intended use **Epoxy adhesive**

**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)**  
**Italia**

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 2	H361f	Suspected of damaging fertility.
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, 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**

<div> <div>Licata S.p.A.</div> <div>P10468 - FiberFIP ADESIVO 800 COMP.B</div> </div>		<div> <div>Revision nr.7</div> <div>Dated 06/02/2026</div> <div>Printed on 06/02/2026</div> <div>Page n. 2 / 15</div> <div>Replaced revision:6 (Dated 09/10/2024)</div> </div> <div>EN</div>
SECTION 2. Hazards identification ... / >>		
<div> <div>Hazard statements:</div> <div> <div>H361f</div> <div>H314</div> <div>H317</div> <div>H411</div> <div>EUH071</div> </div> <div> <div>Suspected of damaging fertility.</div> <div>Causes severe skin burns and eye damage.</div> <div>May cause an allergic skin reaction.</div> <div>Toxic to aquatic life with long lasting effects.</div> <div>Corrosive to the respiratory tract.</div> </div> </div>		
<div> <div>Precautionary statements:</div> <div> <div>P260</div> <div>P305+P351+P338</div> <div>P303+P361+P353</div> <div>P280</div> <div>P310</div> <div>P264</div> </div> <div> <div>Do not breathe dust / fume / gas / mist / vapours / spray.</div> <div>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</div> <div>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].</div> <div>Wear protective gloves/ protective clothing / eye protection / face protection.</div> <div>Immediately call a POISON CENTER/doctor.</div> <div>Wash your hands thoroughly after use.</div> </div> </div>		
<div> <div>Contains:</div> <div> <div>4-tert-Butylphenol</div> <div>Triethylenetetramine</div> <div>M-PHENYLENEBIS (METHYLAMINE)</div> <div>3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA</div> <div>BENZYL ALCOHOL</div> <div>Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol</div> </div> </div>		
2.3. Other hazards		
<div> <div>vPvB substances contained:</div> <div>Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol</div> <div>The product contains substances with endocrine disrupting properties in concentration <math>\geq 0,1\%</math>:</div> <div>4-tert-Butylphenol</div> </div>		
SECTION 3. Composition/information on ingredients		
3.2. Mixtures		
Contains:		
Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol		
INDEX	$27 \leq x < 28,5$	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 3 H412
EC	700-960-7	
CAS	68512-30-1	
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA		
INDEX	$612-067-00-9$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317
EC	220-666-8	
CAS	2855-13-2	
REACH Reg.	01-2119514687-32-XXXX	LD50 Oral: 1030 mg/kg
Triethylenetetramine		
INDEX	$16,5 \leq x < 18$	Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412, EUH071
EC	292-588-2	
CAS	90640-67-8	
REACH Reg.	01-2119487919-13	LD50 Oral: 1716 mg/kg, LD50 Dermal: 1465 mg/kg
4-tert-Butylphenol		
INDEX	$604-090-00-8$	Repr. 2 H361f, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 1 H410
EC	202-679-0	M=1
CAS	98-54-4	
REACH Reg.	01-2119489419-21-xxxx	
BENZYL ALCOHOL		
INDEX	$603-057-00-5$	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1B H317
EC	202-859-9	
CAS	100-51-6	
REACH Reg.	01-2119492630-38-XXXX	LD50 Oral: 1620 mg/kg

**P10468 - FiberFIP ADESIVO 800 COMP.B****SECTION 3. Composition/information on ingredients ... / >>****M-PHENYLENEBIS (METHYLAMINE)**INDEX  $6 \leq x < 7$ 

EC 216-032-5

CAS 1477-55-0

REACH Reg. 01-2119480150-50-XXXX

**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 mists/powders: 1,5 mg/l, ATE Inhalation vapours: 11 mg/l**

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.

**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.

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<div>SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS</div> <div>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).</div>		
<div>SECTION 6. Accidental release measures</div>		
<div>6.1. Personal precautions, protective equipment and emergency procedures</div> <div>Block the leakage if there is no hazard.</div> <div>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.</div>		
<div>6.2. Environmental precautions</div> <div>The product must not penetrate into the sewer system or come into contact with surface water or ground water.</div>		
<div>6.3. Methods and material for containment and cleaning up</div> <div>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.</div> <div>Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.</div>		
<div>6.4. Reference to other sections</div> <div>Any information on personal protection and disposal is given in sections 8 and 13.</div>		
<div>SECTION 7. Handling and storage</div>		
<div>7.1. Precautions for safe handling</div> <div>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.</div>		
<div>7.2. Conditions for safe storage, including any incompatibilities</div> <div>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.</div>		
<div>7.3. Specific end use(s)</div> <div>Information not available</div>		
<div>SECTION 8. Exposure controls/personal protection</div>		
<div>8.1. Control parameters</div>		
<div>EPY 11.9.0 - SDS 1004.14</div>		

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

4-tert-Butylphenol								
Predicted no-effect concentration - PNEC								
Normal value in fresh water					0,01	mg/l		
Normal value in marine water					0,001	mg/l		
Normal value for fresh water sediment					0,27	mg/kg/d		
Normal value for marine water sediment					0,027	mg/kg/d		
Normal value for water, intermittent release					0,048	mg/l		
Normal value of STP microorganisms					1,5	mg/l		
Normal value for the food chain (secondary poisoning)					46,67	mg/kg		
Normal value for the terrestrial compartment					0,25	mg/kg/d		

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers		Chronic	Chronic	Effects on workers		Chronic	Chronic
	Acute	Acute			Acute	Acute		
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0,026				
				mg/kg bw/d				
Inhalation				0,09				0,500
				mg/m3				mg/m3
Skin				0,026				0,071
				mg/kg bw/d				mg/kg
								bw/d

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol								
Predicted no-effect concentration - PNEC								
Normal value in fresh water					0,014	mg/l		
Normal value in marine water					0,0014	mg/l		
Normal value for fresh water sediment					1064	mg/kg/d		
Normal value for marine water sediment					106,4	mg/kg/d		
Normal value for water, intermittent release					0,14	mg/l		
Normal value of STP microorganisms					2,4	mg/l		
Normal value for the food chain (secondary poisoning)					8,89	mg/kg		
Normal value for the terrestrial compartment					212,2	mg/kg/d		

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers		Chronic	Chronic	Effects on workers		Chronic	Chronic
	Acute	Acute			Acute	Acute		
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0,200				
				mg/kg bw/d				
Inhalation				0,348				1,41
				mg/m3				mg/m3
Skin				1,67				3,5
				mg/kg bw/d				mg/kg
								bw/d

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

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

### M-PHENYLENEBIS (METHYLAMINE)

#### 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								1,2 mg/m3
Skin								0,33 mg/kg bw/d

### BENZYL ALCOHOL

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	1	mg/l
Normal value in marine water	0,1	mg/l
Normal value for fresh water sediment	5,27	mg/kg/d
Normal value for marine water sediment	0,527	mg/kg/d
Normal value for the terrestrial compartment	0,456	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		25 mg/kg/d		5 mg/kg/d				
Skin					47 mg/kg/d		9,5 mg/kg/d	

### 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,06	mg/l
Normal value in marine water	0,006	mg/l
Normal value for fresh water sediment	5,784	mg/kg
Normal value for marine water sediment	0,578	mg/kg
Normal value for the terrestrial compartment	1,121	mg/kg

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

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).

#### 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

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SECTION 8. Exposure controls/personal protection ... / >>				
<p>concentration. (see standard EN 14387).</p> <p>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.</p> <p>ENVIRONMENTAL EXPOSURE CONTROLS</p> <p>The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.</p> <p>Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.</p>				
SECTION 9. Physical and chemical properties				
9.1. Information on basic physical and chemical properties				
Properties	Value	Information		
Appearance	liquid			
Colour	light blue			
Odour	characteristic			
Melting point / freezing point	not available			
Initial boiling point	> 200 °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	7,5			
Kinematic viscosity	not available			
Solubility	not available			
Partition coefficient: n-octanol/water	not available			
Vapour pressure	not available			
Density and/or relative density	1			
Relative vapour density	not available			
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				
VOC (Directive 2010/75/EU)	7,77 % - 77,73	g/litre		
VOC (volatile carbon)	6,04 % - 60,37	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.				
BENZYL ALCOHOL				
Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.				
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.				
EPY 11.9.0 - SDS 1004.14				

**P10468 - FiberFIP ADESIVO 800 COMP.B****SECTION 10. Stability and reactivity** ... / >>**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.

**BENZYL ALCOHOL**

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA**

May react dangerously with: strong oxidising agents,concentrated inorganic acids.

**10.4. Conditions to avoid**

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

**BENZYL ALCOHOL**

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

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA**

Avoid contact with: strong acids,strong oxidants.

**10.5. Incompatible materials****BENZYL ALCOHOL**

Incompatible with: sulphuric acid,oxidising substances,aluminium.

**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.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**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 - mists / powders) of the mixture:	> 5 mg/l
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

Corrosive to the respiratory tract.

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

LD50 (Dermal):	2000 mg/kg Ratto
LD50 (Oral):	2000 mg/kg Ratto
LC50 (Inhalation vapours):	5 mg/l Ratto

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA

LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	1030 mg/kg Rat
LC50 (Inhalation mists/powders):	> 5,01 mg/l/4h Rat



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Triethylenetetramine	
LD50 (Dermal):	1465 mg/kg Rabbit
LD50 (Oral):	1716 mg/kg Rat
4-tert-Butylphenol	
LD50 (Dermal):	2290 mg/kg Rabbit
LD50 (Oral):	2950 mg/kg Rat
BENZYL ALCOHOL	
LD50 (Dermal):	2000 mg/kg Rabbit
LD50 (Oral):	1620 mg/kg Rat
LC50 (Inhalation vapours):	> 4,178 mg/l/4h Rat
M-PHENYLENEBIS (METHYLAMINE)	
LD50 (Dermal):	2000 mg/kg Rabbit
LD50 (Oral):	930 mg/kg Rat

**SKIN CORROSION / IRRITATION**

Corrosive for the skin

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage

**RESPIRATORY OR SKIN SENSITISATION**

Sensitising for the skin

**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**

Suspected of damaging 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 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 has negative effects on the aquatic environment.

**12.1. Toxicity**

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	
LC50 - for Fish	25,8 mg/l/96h
EC50 - for Crustacea	33 mg/l/48h
EC50 - for Algae / Aquatic Plants	15 mg/l/72h

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## SECTION 12. Ecological information ... / >>

EC10 for Crustacea	13 mg/l/48h
EC10 for Algae / Aquatic Plants	6 mg/l/72h
Chronic NOEC for Fish	5 mg/l
Chronic NOEC for Crustacea	7,5 mg/l
Chronic NOEC for Algae / Aquatic Plants	6 mg/l

### 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA

LC50 - for Fish	110 mg/l/96h
EC50 - for Crustacea	23 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 50 mg/l/72h
Chronic NOEC for Crustacea	3 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 Crustacea	1,9 mg/l/48h
EC10 for Algae / Aquatic Plants	1,34 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	1,34 mg/l

### 4-tert-Butylphenol

LC50 - for Fish	5,14 mg/l/96h
EC50 - for Crustacea	3,9 mg/l/48h
EC50 - for Algae / Aquatic Plants	14 mg/l/72h
EC10 for Algae / Aquatic Plants	0,32 mg/l/72h
Chronic NOEC for Crustacea	3,2 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,32 mg/l

### BENZYL ALCOHOL

LC50 - for Fish	460 mg/l/96h
EC50 - for Crustacea	230 mg/l/48h
EC50 - for Algae / Aquatic Plants	700 mg/l/72h

### M-PHENYLENEBIS (METHYLAMINE)

LC50 - for Fish	> 100 mg/l/96h
EC50 - for Crustacea	15,2 mg/l/48h
EC50 - for Algae / Aquatic Plants	20,3 mg/l/72h

## 12.2. Persistence and degradability

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Solubility in water	4 mg/l
NOT rapidly degradable	50%

### 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA

NOT rapidly degradable

### Triethylenetetramine

Solubility in water	1000000 mg/l
NOT rapidly degradable	

### 4-tert-Butylphenol

Solubility in water	607,2 mg/l
Inherently degradable	Facilmente biodegradabile, ma non riesce a superare la finestra di 10 giorni.

### BENZYL ALCOHOL

Rapidly degradable

### M-PHENYLENEBIS (METHYLAMINE)

Degradability: information not available

## 12.3. Bioaccumulative potential

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Partition coefficient: n-octanol/water	6,3 Log Kow
BCF	3000

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

4-tert-Butylphenol  
Partition coefficient: n-octanol/water 3 Log Kow

BENZYL ALCOHOL  
BCF 1,37

**12.4. Mobility in soil**

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol  
Partition coefficient: soil/water 760000

Triethylenetetramine  
Partition coefficient: soil/water 3,5

**12.5. Results of PBT and vPvB assessment**

vPvB substances contained:  
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

**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:  
4-tert-Butylphenol

**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.  
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 3267

**14.2. UN proper shipping name**

ADR / RID: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA;  
Triethylenetetramine)  
IMDG: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA;  
Triethylenetetramine ;4-tert-Butylphenol)  
IATA: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINA;  
Triethylenetetramine)

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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: E2

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

Product	
Point	3
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)

4-tert-Butylphenol

REACH Reg.: 01-2119489419-21-xxxx

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol

Substances subject to authorisation (Annex XIV REACH)

None

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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:

<b>Repr. 2</b>	Reproductive toxicity, category 2
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Skin Sens. 1A</b>	Skin sensitization, category 1A
<b>Skin Sens. 1B</b>	Skin sensitization, category 1B
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H361f</b>	Suspected of damaging fertility.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH071</b>	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

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- 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
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26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
27. Delegated Regulation (UE) 2024/2564 (XXII 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.

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Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 10 / 11 / 12 / 13 / 14 / 15 / 16.