



The following technical datasheet is provided by Adesiv.

For further information please either give us a call or visit the manufacturer's website.

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All information is correct at the time of download from the manufacturer.

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Registered in England under Company No: 03746590 VAT No: 765 9995 45



PELPREN PL6



BICOMPONENT ADHESIVE FOR WOOD FLOORS

Bicomponent epoxy-polyurethane water-free adhesive, specifically for bonding all types of wood floor to concrete sub-floors or non-absorbent existing flooring (such as marble, tiles, terrazzo flooring and wood surfaces). On existing slightly absorbent or non-absorbent surfaces, always abrade your surface properly, then clean sufficiently, before bonding.

TECHNICAL CHARACTERISTICS:

- Bicomponent
- High performance (adhesion and strength)
- Suitable for all types of wood floors
- Very easy to spread with a trowel
- Water-free

SPECIAL PROPERTIES:

	Emission class as per French regulations.
	Suitable for underfloor systems

WHERE IT CAN BE APPLIED:

- Absorbent and non-absorbent flooring (after abrading surface and cleaning)
- Traditional concrete screeds
- Anhydrite screeds (calcium sulphate)
- Absorbent and non-absorbent sub-floors with underfloor heating or cooling systems
- Metallic materials (following an application test)

THE FOLLOWING CAN BE BONDED TO THESE SURFACES:

- 10 mm non-interlocking solid wood elements (lamarquet) as per the DIN EN 13227 standard
- Mosaic parquet compliant with standard DIN EN 13488
- (Industrial) solid wood strips compliant with DIN EN 14761 standard
- Interlocking tongue-and-groove solid wood boards with maximum width of 18 cm or 20 cm with oak veneer compliant with standard DIN EN 13226
- Finished multi-layered flooring compliant with standard DIN EN 13489

CONTINUE



PELPREN PL6

SPECIFIC CHARACTERISTICS (normal conditions):

Appearance:	Thixotropic paste
Colour:	Beige or Brown
Mixing ratio (A: B):	9: 1
Brookfield viscosity at 20 °C (mPa*s):	70,000 - 90,000 Comp. A 4,000 - 9,000 Comp. B
Brookfield viscosity at 20 °C, catalysed product (mPa*s):	55,000 - 75000
Yield: (g/m ²):	1000 – 1400 (g/m ²) no. 6 notched trowel (product yield may vary depending on the porosity and flatness of the surface being treated)
Usage temperature (°C):	+10 to +30
Open time (minutes):	90 - 120
Ready for walking on (hours):	after 12 - 18 hours, depending on environmental conditions
Final setting (hours):	after 48 - 72 (ready-to-walk-on and final setting times vary depending on weather conditions and the thickness of the layer applied)
Tensile shear strength UNI EN 14293 (N/mm ²):	4.5 (par. 4.3.4 b) 5.9 (par. 4.3.4 a)
Wood-Concrete Adhesion (N/mm ²):	> 3 (Concrete failure)
Hardness (Shore A):	90
Application/Equipment:	notched trowel
Equipment cleaning:	SOLVENTE GR7 solvent, before the product sets
Product removal:	PULITORE LS cleaner, before the product sets
Storage (months): temperature between +5 °C and +25 °C	12
Disposal information:	Dispose of in compliance with the local and national regulations in force
Packaging:	5 or 10 kg kits (A+B)
Usage limitations:	Before use, the product should be brought to a temperature of at least 10 °C. Do not apply in damp environments. Do not bond the sides of the panels. Always use suitable personal protective equipment Always consult the technical and safety information sheets
GISCODE:	RE 2 / RU 2

SURFACE PREPARATION:

The surface to be treated must be compact, dry, clean and free from loose parts such as traces of wall paint, dust, wax and the like, and must be compliant with DIN 18356. Before laying, always use suitable tools to verify the moisture level in the sub-floor and the wood. The moisture level in the sub-floor must be measured in depth (approx. 2-3 cm) using a carbide hygrometer in order to rule out the presence of particularly hygroscopic substances (such as pumice or vermiculite), which could release the moisture contained in them and thus cause the floor surface to swell. The humidity should be <2% for traditional screeds, <0.5% for anhydrite screeds (calcium sulphate) and <0.2% for anhydrite screeds (calcium sulphate) with radiant heating. The moisture content of the wood must be between 7 and 11%. Do not apply on screeds that are not protected from possible rising damp (always ensure there is an appropriate vapour barrier between the screed and flooring). On low-porosity or calcium sulphate screeds, mechanical sanding of the surface is recommended, and any residual dirt, dust or loose parts must be vacuumed off the surface. Concrete dusty sub-floors or sub-floors with moisture must be consolidated with primers (e.g. our PRIMER HE, PRIMER WB PU or PRIMER PA 400 products) to ensure proper adhesion of the glue (see technical data sheet).

APPLICATION:

Apply at an ambient temperature of between 10 °C and 30 °C, otherwise viscosity and drying times may vary significantly, with less-than-optimal results. Allow the product to reach room temperature before use. Pour component B into the container of component A, and mix thoroughly with a low-speed stirrer to obtain an even paste uniform in colour. Spread the mix using a notched trowel, incorporating any powder on the sub-floor. Lay the parquet, pressing the flooring down firmly to ensure that the adhesive sticks to the whole surface. It is recommended that wood flooring is kept at a distance of at least 8-10 mm from the walls.

Before the product sets, remove any residual adhesive by using a cloth soaked in our PULITORE LS cleaner. You should always check that the cleaning agent is compatible with the surface being treated. Always consult the product's technical and safety information sheets before use.

HAZARD PICTOGRAMS:

Component A



Component B





Adesiv s.r.l.

Revision nr. 3

Dated 06/05/2019

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Safety data sheet

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

1.1. Product identifier.

Code: PL6A
Product name: PELPREN PL6 comp. A

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

Intended use: Epoxy-polyurethane adhesive for wooden flooring.

Product intended for professional use.

1.3. Details of the supplier of the safety data sheet.

Name: Adesiv s.r.l.
Full address: Via Delle Rose, 31
District and Country: 36061 Bassano del Grappa (Vicenza)
Italia
Tel. 0424 566406
Fax. 0424 566473

e-mail address of the competent person.

responsible for the Safety Data Sheet. laboratorio@adesiv.it

1.4. Emergency telephone number.

For urgent inquiries refer to.

Italy: +39 02 6610 1029
Germany: +49 30 192 40
UK: +44 844 892 0111
France: +33 (0) 1 40 05 48 48
Spain: +34 91 562 0420
Russia: +7 495 628 1687
Poison centres (24/24 h)

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 EC Regulation 1907/2006 and subsequent amendments. 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:

Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.



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2.2. Label elements.

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
EUH205 Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements:

P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: wash with plenty of water and soap.

Contains: Reaction product: bisphenol A-(epichlorhydrin)
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs
Phenol, methyl styrenated

2.3. Other hazards.

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

SECTION 3. Composition/information on ingredients.

3.2. Mixtures.

Contains:

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

Identification.	Concentration, %	Classification 1272/2008 (CLP).	Specific classification limits
Reaction product: bisphenol A-(epichlorhydrin)			
CAS. 25068-38-6	5 - 6	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411	Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %
EC. 500-033-5			
INDEX. 603-074-00-8			
Reg. no. 01-2119456619-26-XXXX			

**PL6A - PELPREN PL6 comp. A****5.2. Special hazards arising from the substance or mixture.****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Excess pressure may form in containers exposed to fire at a risk of explosion. 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. If the product is flammable, use explosion-proof equipment. 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.**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.



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7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
EU	OEL EU	Directive 2017/164/EU; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2016

Reaction product: bisphenol A-(epichlorhydrin)

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,006	mg/l
Normal value in marine water	0,0006	mg/l
Normal value for fresh water sediment	0,0627	mg/kg
Normal value for marine water sediment	0,00627	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	11	mg/kg food
Normal value for the terrestrial compartment	0,0478	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Effects on workers		
	Acute local	Acute systemic	Chronic local	Acute local	Acute systemic	Chronic systemic
Oral.		0,750 mg/kg bw/d				
Inhalation.					12,25 mg/m3	12,25 mg/m3
Skin.		3,571 mg/kg bw/d			8,33 mg/kg bw/d	8,33 mg/kg bw/d

Ethyl acetate

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	800			



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AGW	DEU	1500	400	3000	800
MAK	DEU	1500	400	3000	800
TLV	DNK	540	150		
VLA	ESP	1460	400		
VLEP	FRA	1400	400		
WEL	GBR		200		400
TLV	GRC	1400	400		
GVI	HRV		200		400
AK	HUN	1400		1400	
OEL	NLD	550		1100	
NDS	POL	200		600	
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 food chain (secondary poisoning)	250	mg/kg food
Normal value for the terrestrial compartment	0,148	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Chronic systemic	Effects on workers			Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Oral.				4,5 mg/kg bw/d				
Inhalation.	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin.				37 mg/kg bw/d				63 mg/kg bw/d

Phenol, methyl styrenated

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	52,9	mg/kg
Normal value for marine water sediment	5,3	mg/kg
Normal value for water, intermittent release	0,14	mg/l
Normal value of STP microorganisms	2,4	mg/l
Normal value for the terrestrial compartment	10,5	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Chronic systemic	Effects on workers			Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Oral.				4 mg/kg bw/d				
Inhalation.				28 mg/m3				57 mg/m3
Skin.				8 mg/kg bw/d				16,4 mg/kg bw/d

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,0072	mg/l
Normal value in marine water	0,00072	mg/l
Normal value for fresh water sediment	66,77	mg/kg/d
Normal value for marine water sediment	6,677	mg/kg/d
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	61,42	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

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Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.	2,9 mg/m ³	7,6 mg/m ³	1,46 mg/m ³	0,870 mg/m ³	9,8 mg/m ³	29 mg/m ³	0,98 mg/m ³	3,8 mg/m ³
Skin.	40 mg/kg/d	10 mg/kg/d	1 mg/kg/d	0,5 mg/kg bw/d	68 mg/kg/d	17 mg/kg/d	1,7 mg/kg/d	1 mg/kg bw/d

Legend:

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

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

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. 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 (see standard EN 374).

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

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

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS.

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

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

SECTION 9. Physical and chemical properties.**9.1. Information on basic physical and chemical properties.**

Appearance	paste
Colour	brown
Odour	fruity
Odour threshold.	Not available.

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pH.	Not applicable.
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	Not available.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,75 – 1,85 kg/l @ 20°C.
Solubility	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	70000 - 90000 mPa*s @ 20°C
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information.

Information not available.

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

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

Ethyl acetate

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

10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

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.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

Ethyl acetate

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

10.5. Incompatible materials.

Ethyl acetate

Incompatible with: acids ,bases, strong oxidants, aluminium, nitrates, chlorosulphuric acid. Incompatible materials: plastic materials.

**PL6A - PELPREN PL6 comp. A****10.6. Hazardous decomposition products.**

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information.

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

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

11.1. Information on toxicological effects.**ACUTE TOXICITY.**

LC50 (Inhalation - vapours) of the mixture: Not classified (no significant component).

LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component).

LD50 (Oral) of the mixture: Not classified (no significant component).

LD50 (Dermal) of the mixture: Not classified (no significant component).

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

LD50 (Oral) > 2000 mg/kg Rabbit

LD50 (Dermal) > 4000 mg/kg Rabbit

LC50 (Inhalation) > 0,15 mg/l/4h Rat

Reaction product: bisphenol A-(epichlorhydrin)

LD50 (Oral) > 2000 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Rat

Ethyl acetate

LD50 (Oral) 4934 mg/kg Rat

LD50 (Dermal) > 20000 mg/kg Rabbit

LC50 (Inhalation) > 6000 ppm/6h Rat

Phenol, methyl styrenated

LD50 (Oral) > 2000 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Rat

LC50 (Inhalation) > 5 mg/l/4h Rat

SKIN CORROSION / IRRITATION.

Causes skin irritation.

SERIOUS EYE DAMAGE / IRRITATION.

Causes serious eye irritation.

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.

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. Viscosity: 70000 - 90000 mPa*s 20°C

SECTION 12. Ecological information.

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

12.1. Toxicity.

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
LC50 - for Fish. > 100 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea. 7,2 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants. 843,75 mg/l/72h Pseudokirchneriella subcapitata

Reaction product: bisphenol A-(epichlorhydrin)
LC50 - for Fish. 1,5 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea. 1,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants. 9,1 mg/l/72h Scenedesmus capricornutum

Ethyl acetate
LC50 - for Fish. 220 mg/l/96h Pimephales promelas
EC50 - for Crustacea. 3090 mg/l/48h Daphnia Magna
Chronic NOEC for Algae / Aquatic Plants. > 100 mg/l Desmodesmus subspicatus

Phenol, methyl styrenated
LC50 - for Fish. 25,8 mg/l/96h Fish
EC50 - for Crustacea. 14 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants. 15 mg/l/72h Algae

12.2. Persistence and degradability.

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
Entirely biodegradable.

Reaction product: bisphenol A-(epichlorhydrin)
Solubility in water. 0,1 - 100 mg/l
NOT rapidly biodegradable.

Ethyl acetate
Solubility in water. > 10000 mg/l
Rapidly biodegradable.

12.3. Bioaccumulative potential.

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
Partition coefficient: n-octanol/water. 3,77
BCF. 160 - 263



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Reaction product: bisphenol
A-(epichlorhydrin)

Partition coefficient: n-
octanol/water. > 2,918
BCF. 31

Ethyl acetate

Partition coefficient: n-
octanol/water. 0,68
BCF. 30

12.4. Mobility in soil.

Reaction product: bisphenol
A-(epichlorhydrin)

Partition coefficient: 2,65
soil/water.

12.5. Results of PBT and vPvB assessment.

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

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

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

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

CONTAMINATED PACKAGING

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

SECTION 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.

14.1. UN number.

Not applicable.

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Not applicable.



PL6A - PELPREN PL6 comp. A

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

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

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso Category - Directive 2012/18/EC: None.

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

Product

Point. 3

Substances in Candidate List (Art. 59 REACH).

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

Substances subject to authorisation (Annex XIV REACH).

None.

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

None.

Substances subject to the Rotterdam Convention:

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.

**PL6A - PELPREN PL6 comp. A**

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

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

Flam. Liq. 2	Flammable liquid, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

LEGEND:

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



PL6A - PELPREN PL6 comp. A

- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 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
 - ECHA website
 - IFA-GESTIS website

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. The intended use for the product requires mixing with PELPREN PL 6 comp. B in the proportion described in the technical sheet, every other use is regarded as improper.

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



Adesiv s.r.l.

Revision nr. 1-EN

Dated 22/08/2018

EURO GOLD / EURO 5 / PELPREN PL6 comp. B

Printed on 22/08/2018

Page n. 1/11

Safety data sheet

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

1.1. Product identifier.

Product name.

EURO GOLD / EURO 5 / PELPREN PL6 comp. B

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

Intended use.

Hardener (comp. B) suitable for EURO GOLD, EURO 5, PELPREN PL6 comp. A.

IDENTIFIED USE

Professional (SU22)

Consumer (SU21)



1.3. Details of the supplier of the safety data sheet.

Name.

Adesiv s.r.l.

Full address.

Via Delle Rose, 31

District and Country.

36061 Bassano del Grappa (Vicenza)
Italia

Tel. 0424 566406

Fax. 0424 566473

e-mail address of the competent person

responsible for the Safety Data Sheet.

laboratorio@adesiv.it

1.4. Emergency telephone number.

For urgent inquiries refer to.

Poison centres (24/24 h)

Italy: +39 02 6610 1029

Germany: +49 30 192 40

UK: +44 844 892 0111

France: +33 (0) 1 40 05 48 48

Spain: +34 91 562 0420

Russia: +7 495 628 1687

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 EC Regulation 1907/2006 and subsequent amendments. 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:

Serious eye damage, category 1

H318

Causes serious eye damage.

Skin irritation, category 2

H315

Causes skin irritation.

Skin sensitization, category 1

H317

May cause an allergic skin reaction.

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.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains:
tetraethylenepentamine

May produce an allergic reaction.

Precautionary statements:

P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: wash with plenty of water and soap.
P310 Immediately call a POISON CENTER / doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains: 2,4,6-tris(dimethylaminomethyl) phenol
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylentetramine
Tetraethylenepentamine

2.3. Other hazards.

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

SECTION 3. Composition/information on ingredients.**3.2. Mixtures.**

Contains:

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

Identification.	Concentration, %	Classification Reg. CE 1272/2008	SCLs (Annex VI Reg. Ce 1272/2008)
Fatty acids, C18-unsatd., dimers, oligomeric			

**reaction products with 4,4'-isopropylidenediphenol -1-chloro-2,3-epoxypropane co-oligomer, tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine**

CAS. 106906-26-7 30 - 40 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 3 H412 Non applicable.

EC. 500-296-6

INDEX. -

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

CAS. 68082-29-1 5 - 10 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317 Non applicable.

EC. 500-191-5

INDEX. -

2,4,6-tris(dimethylaminomethyl) phenol

CAS. 90-72-2 < 5 Skin Corr. 1C H314, Skin Sens. 1 H317 Non applicable.

EC. 202-013-9

INDEX. 603-069-00-0

Reg. no. 01-2119560597-27-XXXX

Tetraethylenepentamine

CAS. 112-57-2 < 0,5 Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Skin Sens. 1 H317, Aquatic Chronic 2 H411 Non applicable.

EC. 203-986-2

INDEX. 612-060-00-0

Reg. no. 01-2119487290-37-XXXX

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

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.



5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

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

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

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

6.2. Environmental precautions.

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

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. 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.****2,4,6-tris(dimethylaminomethyl) phenol**

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,084	mg/l
Normal value in marine water	0,008	mg/l
Normal value for fresh water sediment	NEA	
Normal value for marine water sediment	NEA	
Normal value for water, intermittent release	0,84	mg/l
Normal value of STP microorganisms	0,2	mg/l
Normal value for the food chain (secondary poisoning)	NPI	
Normal value for the terrestrial compartment	NEA	

Tetraethylenepentamine

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,068	mg/l
Normal value in marine water	0,068	mg/l
Normal value for fresh water sediment	3,43	mg/kg
Normal value for marine water sediment	0,343	mg/kg
Normal value of STP microorganisms	9,73	mg/l
Normal value for the terrestrial compartment	0,683	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.		26 mg/kg bw/d		0,53 mg/kg bw/d				
Inhalation.		2071 mg/m3	0,38 mg/m3			6940 mg/m3		
Skin.	1,29 mg/cm2			0,32 mg/kg bw/d				0,74 mg/kg bw/d

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. 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 (see standard EN 374).

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

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

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

**RESPIRATORY PROTECTION**

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS.

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

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

SECTION 9. Physical and chemical properties.**9.1. Information on basic physical and chemical properties.**

Appearance	pasty liquid
Colour	brown
Odour	aminic,
Odour threshold.	Not available.
pH.	Not applicable.
Melting point / freezing point.	Not available.
Initial boiling point.	> 180 °C.
Boiling range.	Not available.
Flash point.	> 130 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower flammability limit.	Not available.
Upper flammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,2 – 1,3 kg/l @ 20°C
Solubility	immiscible with water, miscible in solvent
Partition coefficient: n-octanol/water	Not relevant, the product is a mixture.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	4000 – 6000 mPa*s (Brookfield, #4, 20 rpm) @ 20°C
Explosive properties	The product is not explosive.
Oxidising properties	The product does not possess oxidising properties.

9.2. Other information.

Information not available.

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

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

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.

10.4. Conditions to avoid.

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

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

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.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: Not classified (no significant component).

LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component).

LD50 (Oral) of the mixture: Not classified (no significant component).

LD50 (Dermal) of the mixture: Not classified (no significant component).

Tetraethylenepentamine

LD50 (Oral) 2140 mg/kg rat

LD50 (Dermal) 1260 mg/kg rabbit

2,4,6-tris(dimethylaminomethyl) phenol

LD50 (Oral) 2169 mg/kg rat

LD50 (Dermal) > 1 mg/kg ml/kg rat

SKIN CORROSION / IRRITATION.

Causes skin irritation.

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.

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.

SECTION 12. Ecological information.**12.1. Toxicity.**

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

Tetraethylenepentamine	
LC50 - for Fish.	420 mg/l/96h <i>Poecilia reticulata</i>
EC50 - for Crustacea.	24,1 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants.	2,1 mg/l/72h Algae
2,4,6-tris(dimethylaminomethyl) phenol	
LC50 - for Fish.	175 mg/l/96h <i>Cyprinus carpio</i>
EC50 - for Crustacea.	718 mg/l/96 h <i>Palaemonetes vulgaris</i>
EC50 - for Algae / Aquatic Plants.	84 mg/l/72h <i>Desmodesmus subspicatus</i>
Chronic NOEC for Algae / Aquatic Plants.	6,25 mg/l 96 h, <i>Desmodesmus subspicatus</i>

12.2. Persistence and degradability.

2,4,6-tris(dimethylaminomethyl) phenol	
Solubility in water.	> 10000 mg/l

NOT rapidly biodegradable.

12.3. Bioaccumulative potential.

2,4,6-tris(dimethylaminomethyl) phenol	
Partition coefficient: n-octanol/water.	-0,66

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 greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.



13.1. Waste treatment methods.

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

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

CONTAMINATED PACKAGING

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

SECTION 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.

14.1. UN number.

Not applicable.

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

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

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso Category - Directive 2012/18/EC: None.

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

Product

Point. 3

Substances in Candidate List (Art. 59 REACH).



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

Substances subject to authorisation (Annex XIV REACH).

None.

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

None.

Substances subject to the Rotterdam Convention:

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.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

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

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
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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.



- H411** Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

LEGEND:

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

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1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
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 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - ECHA website

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.