

FB169 - RESITAR 30 M Comp. B

Safety data sheet

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

1.1. Product identifier.

Code: **FB169**
Product name: **RESITAR 30 M Comp. B**

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

Intended use: **Hardener for epoxy mortar**

Identified Uses	Industrial.	Professional.	Consumer.
Hardener for epoxy mortar	✓	-	-

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

Name: **Resimix s.r.l.**
Full address: **via Pacinotti 12/14**
District and Country: **36040 Brendola (VI)**
Italia
Tel. +39 (0) 444 400 773
Fax. +39 (0) 444 601 662

e-mail address of the competent person.

responsible for the Safety Data Sheet: **laboratorio@resimix.com**
Product distribution by: **Resimix s.r.l.**

1.4. Emergency telephone number.

For urgent inquiries refer to.

CAVp Osp. Pediatrico Bambino Gesù, Roma 06 68593726
Az. Osp. Univ. Foggia, Foggia 0881-732326
Az. Osp. "A. Cardarelli", Napoli 081-7472870
CAV Policlinico "Umberto I", Roma 06-49978000
CAV Policlinico "A. Gemelli", Roma 06-3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica, Firenze 055-7947819
CAV Centro Nazionale di Informazione Tossicologica, Pavia 0382-24444
Osp. Niguarda Ca" Granda, Milano 02-66101029
Azienda Ospedaliera Papa Giovanni XXII, Bergamo 80088330

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:

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 1A	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.

FB169 - RESITAR 30 M Comp. B**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:

H361f	Suspected of damaging fertility.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201	Obtain special instructions before use.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves / clothing and eye / face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER / doctor
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents / container in accordance with local / regional / national / international.

Contains:

Bisphenol A
2-piperazine-1-yléthylamine
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
Phenol, methylstyrenated
Polymeric reaction products of formaldehyde and 4-nonylphenol and triethylenetetramine and 2-piperazin-1-ylethylamine

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.**3.1. Substances.**

Information not relevant.

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3.2. Mixtures.

Contains:

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

Identification.
Classification 1272/2008 (CLP).
INERT

 CAS. - $50 \leq x < 80$

EC. -

INDEX. -

Phenol, methylstyrenated

 CAS. 68512-30-1 $10 \leq x < 30$

Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC. 270-966-8

INDEX. -

2-pipérazine-1-yléthylamine

 CAS. 140-31-8 $1 \leq x < 10$

Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1B H314, Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC. 205-411-0

INDEX. 612-105-00-4

Reg. no. 01-2119471486-30

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

 CAS. 68082-29-1 $1 \leq x < 10$

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

EC. 500-191-5

INDEX. -

Reg. no. 01-2119972320-44

Benzyl alcohol

 CAS. 100-51-6 $1 \leq x < 5$

Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319

EC. 202-859-9

INDEX. 603-057-00-5

Reg. no. 01-2119492630-38

Bisphenol A

 CAS. 80-05-7 $1 \leq x < 5$

Repr. 2 H361f, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC. 201-245-8

INDEX. 604-030-00-0

Reg. no. 01-2119457856-23

Formaldehyde, polymer with cyclohexanone

 CAS. 25054-06-2 $1 \leq x < 5$

EC. 607-515-5

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INDEX. -

Polymeric reaction products of formaldehyde and 4-nonylphenol and triethylenetetramine and 2-piperazin-1-ylethylamineCAS. - $1 \leq x < 5$ Skin Corr. 1B H314, Skin Sens. 1A H317

EC. 922-006-0

INDEX. -

Phenol, alkyl branchedCAS. 121158-58-5 $1 \leq x < 3$ Repr. 2 H361, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1

EC. 310-154-3

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Reg. no. 01-2119513207-49

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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.

FB169 - RESITAR 30 M Comp. B**5.2. Special hazards arising from the substance or mixture.****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

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. 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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the

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Oral.	VND	1,5 mg/kg bw/d	VND	0,3 mg/kg bw/d				
Inhalation.	VND	5,3 mg/m3	VND	0,9 mg/m3	VND	21,4 mg/m3	VND	3,6 mg/m3
Skin.	0,02 mg/cm2	10 mg/kg bw/d	0,003 mg/kg/d	1,7 mg/kg bw/d	0,04 mg/cm2	20 mg/kg bw/d	0,006 mg/cm2	3,3 mg/kg bw/d

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

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,004	mg/l
Normal value for fresh water sediment	434,02	mg/kg/d
Normal value for marine water sediment	43,4	mg/kg/d
Normal value for water, intermittent release	0,043	mg/l
Normal value of STP microorganisms	3,84	mg/l
Normal value for the terrestrial compartment	86,78	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.		Effects on workers		Acute systemic	Chronic local	Chronic systemic
	Acute local	Acute systemic	Chronic local	Chronic systemic			
Oral.			VND	0,56 mg/kg bw/d			
Inhalation.			VND	0,97 mg/m3		VND	3,9 mg/m3
Skin.			VND	0,56 mg/kg bw/d		VND	1,1 mg/kg bw/d

Benzyl alcohol
Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
HTP	FIN	45	10		
RV	LVA	5			

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
Normal value for marine water sediment	0,527	mg/kg
Normal value for water, intermittent release	2,3	mg/l
Normal value of STP microorganisms	39	mg/l
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 systemic	Chronic local	Chronic systemic
	Acute local	Acute systemic	Chronic local	Chronic systemic			
Oral.	VND	20 mg/kg bw/d	VND	4 mg/kg bw/d			
Inhalation.	VND	27 mg/m3	VND	5,4 mg/m3	VND	110 mg/m3	VND
Skin.	VND	20 mg/kg bw/d	VND	4 mg/kg bw/d	VND	40 mg/kg bw/d	VND

Bisphenol A
Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	10			INHAL.

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,018	mg/l
Normal value in marine water	0,018	mg/l
Normal value for fresh water sediment	1,2	mg/kg/d
Normal value for marine water sediment	0,24	mg/kg/d
Normal value for water, intermittent release	0,011	mg/l
Normal value of STP microorganisms	320	mg/l
Normal value for the terrestrial compartment	3,7	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
Oral.	VND	0,004 mg/kg bw/d	VND	0,004 mg/kg bw/d	VND	VND	VND	VND
Inhalation.	1 mg/m3	1 mg/m3	1 mg/m3	1 mg/m3	2 mg/m3	2 mg/m3	2 mg/m3	2 mg/m3
Skin.	VND	0,002 mg/kg bw/d	VND	0,002 mg/kg bw/d	VND	0,031 mg/kg bw/d	VND	0,031 mg/kg bw/d

Phenol, alkyl branched

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,000074	mg/l
Normal value in marine water	0,000007	mg/l
Normal value for fresh water sediment	0,226	mg/kg/d
Normal value for marine water sediment	0,027	mg/kg/d
Normal value for water, intermittent release	0,00037	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	4	mg/kg
Normal value for the terrestrial compartment	0,118	mg/kg/d

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.	VND	1,26 mg/kg bw/d	VND	0,075 mg/kg bw/d	VND	VND	VND	VND
Inhalation.	VND	13,26 mg/m3	VND	0,79 mg/m3	VND	44,18 mg/m3	VND	1,762 mg/m3
Skin.	VND	50 mg/kg bw/d	VND	0,075 mg/kg bw/d	VND	166 mg/kg bw/d	VND	0,25 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

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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.

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

Appearance	viscous liquid
Colour	black
Odour	amine
Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	> 60 °C.
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.	1,45
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	50000 - 60000 cP (Brookfield, 20°C)
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information.

VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0

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

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

Phenol, methylstyrenated
Stable in normal conditions of use and storage.

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2-pipérazine-1-yléthylamine

Stable in normal conditions of use and storage.

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

No data available.

Benzyl alcohol

With strong heating build up explosive mixtures with air.

Bisphenol A

No data available about the reactivity on the product itself.

Phenol, alkyl branched

Stable in normal conditions of use and storage.

10.2. Chemical stability.

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

Phenol, methylstyrenated

Stable in normal conditions of use and storage.

2-pipérazine-1-yléthylamine

Stable in normal conditions of use and storage.

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

Stable in normal conditions of use and storage.

Benzyl alcohol

Stable in normal conditions of use and storage.

Bisphenol A

Stable in normal conditions of use and storage.

Phenol, alkyl branched

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.

Phenol, methylstyrenated

Stable in normal conditions of use and storage.

2-pipérazine-1-yléthylamine

.No data available.

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

Stable in normal conditions of use and storage.

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Benzyl alcohol

Risk of explosion on contact with: oxidising agents,hydrobromic acid,iron.

Reacts violently developing heat on contact with: oxidising agents,hydrobromic acid,iron.

Bisphenol A

Stable in normal conditions of use and storage.

Phenol, alkyl branched

.No data available.

10.4. Conditions to avoid.

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

Phenol, methylstyrenated

No data available.

2-pipérazine-1-yléthylamine

.No data available.

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

No data available.

Benzyl alcohol

Avoid exposure to: heat.

Bisphenol A

Avoid contact with: oxidising agents.

Phenol, alkyl branched

.No data available.

10.5. Incompatible materials.

Phenol, methylstyrenated

No data available.

2-pipérazine-1-yléthylamine

Avoid contact with: acids,oxidising agents.

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

Avoid contact with: strong acids,strong bases,strong oxidising agents.

Benzyl alcohol

Attacks various types of plastic materials.

Bisphenol A

Incompatible with: strong acids,strong bases,oxidising substances.

Phenol, alkyl branched

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Avoid contact with: strong oxidising agents.

10.6. Hazardous decomposition products.

Phenol, methylstyrenated
.None dangerous decomposition products at normal use and storage conditions.

2-pipérazine-1-yléthylamine
In decomposition develops: carbon dioxide, carbon monoxide, nitric oxide.

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
None dangerous decomposition products at normal use and storage conditions.

Benzyl alcohol
None dangerous decomposition products at normal use and storage conditions.

Bisphenol A
When heated to decomposition releases: phenoles.

Phenol, alkyl branched
In decomposition develops: carbon oxides.

SECTION 11. Toxicological information.**11.1. Information on toxicological effects.****ACUTE TOXICITY.**

LC50 (Inhalation - vapours) of the mixture:> 20 mg/l
LC50 (Inhalation - mists / powders) of the mixture:Not classified (no significant component).
LD50 (Oral) of the mixture:>2000 mg/kg
LD50 (Dermal) of the mixture:>2000 mg/kg

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
LD50 (Oral).> 2000 mg/kg female rat
LD50 (Dermal).> 2000 mg/kg male/female rat

Benzyl alcohol
LD50 (Oral).1620 mg/kg male rat
LD50 (Dermal).2000 mg/kg rabbit
LC50 (Inhalation).> 4,178 mg/l/4h male/female rat

Phenol, methylstyrenated
LD50 (Oral).> 2000 mg/kg rat
LD50 (Dermal).> 2000 mg/kg rat

2-pipérazine-1-yléthylamine
LD50 (Oral).2097 mg/kg male rat
LD50 (Dermal).866 mg/kg male rabbit

Phenol, alkyl branched

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LD50 (Oral).2100 mg/kg male/female rat
LD50 (Dermal).15000 mg/kg male rabbit

Bisphenol A

LD50 (Oral).> 2000 mg/kg male/female rat
LD50 (Dermal).3000 mg/kg rabbit
LC50 (Inhalation).0,17 mg/l/4h male/female 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.

May damage fertility or the unborn child.

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.

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

12.1. Toxicity.

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

triethylenetetramine

LC50 - for Fish.

7,07 mg/l/96h Danio rerio

EC50 - for Crustacea.

7,07 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic
Plants.

4,34 mg/l/72h Pseudokirchneriella subcapitata

Benzyl alcohol

LC50 - for Fish.

460 mg/l/96h Pimephales promelas

EC50 - for Crustacea.

230 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic
Plants.

700 mg/l/72h Pseudokirchnerella subcapitata

Chronic NOEC for
Crustacea.

51 mg/l Daphnia magna

Phenol, methylstyrenated

LC50 - for Fish.

25,8 mg/l/96h

EC50 - for Crustacea.

14 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic
Plants.

15 mg/l/72h Algae

2-pipérazine-1-yléthylamine

LC50 - for Fish.

2190 mg/l/96h Pimephales promelas

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EC50 - for Crustacea. 58 mg/l/48h Daphnia magna
 EC50 - for Algae / Aquatic Plants. > 1000 mg/l/72h Pseudokirchnerella subcapitata

Phenol, alkyl branched
 LC50 - for Fish. 40 mg/l/96h Pimephales promelas
 EC50 - for Crustacea. 0,037 mg/l/48h Daphnia magna
 Chronic NOEC for Algae / Aquatic Plants. 0,07 mg/l Desmodesmus subspicatus

Bisphenol A
 LC50 - for Fish. 9,4 mg/l/96h Menidia menidia
 EC50 - for Crustacea. 10,2 mg/l/48h Daphnia magna
 EC50 - for Algae / Aquatic Plants. 1,1 mg/l/72h Skeletonema costatum
 Chronic NOEC for Fish. 0,64 mg/l Pimephales promelas
 Chronic NOEC for Crustacea. 0,17 mg/l Mysidopsis bahia

12.2. Persistence and degradability.

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
 Solubility in water. slightly soluble 40 mg/l
 NOT rapidly biodegradable.

Benzyl alcohol
 Solubility in water. very soluble 40000 mg/l
 Rapidly biodegradable. 95 - 97 % 21 d

Phenol, methylstyrenated
 NOT rapidly biodegradable.

2-pipérazine-1-yléthylamine
 NOT rapidly biodegradable.

Phenol, alkyl branched
 NOT rapidly biodegradable. 10 % 56 d

Bisphenol A
 Solubility in water. moderately soluble 300 mg/l
 Rapidly biodegradable. 74,7 - 81,4 % 28 d

FB169 - RESITAR 30 M Comp. B**12.3. Bioaccumulative potential.**

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

77,4 l/kg

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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information.**14.1. UN number.**

ADR / RID, IMDG, 2735
IATA:

14.2. UN proper shipping name.

ADR / RID: AMINES,
LIQUID,
CORROSIVE,
N.O.S. or
POLYAMINES,
LIQUID,
CORROSIVE,

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IMDG: N.O.S. (2-piperazine-1-yléthylamine)
AMINES,
LIQUID,
CORROSIVE,
N.O.S. or
POLYAMINES,
LIQUID,
CORROSIVE,
N.O.S. (2-piperazine-1-yléthylamine)

IATA: AMINES,
LIQUID,
CORROSIVE,
N.O.S. or
POLYAMINES,
LIQUID,
CORROSIVE,
N.O.S. (2-piperazine-1-yléthylamine)

14.3. Transport hazard class(es).

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group.

ADR / RID, IMDG, III
IATA:

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	Limited Quantities: 5 L	Tunnel restriction code: (E)
IMDG:	Special Provision: - EMS: F-A, S-B	Limited Quantities: 5	

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IATA:	Cargo:	L Maximum quantity: 60 L	Packaging instructions: 856
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 852
	Special Instructions:	A3, A803	

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: E2

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.

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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:

Repr. 2	Reproductive toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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%

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- 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).

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
- 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

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.

Changes to previous review: all sections revised according to Regulation 830/2015/EC.