

Revision nr. 1

Dated 03/01/2017

Printed on 03/01/2017

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F322 - RESIMALTA 212 Comp. A

Safety data sheet

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

1.1. Product identifier.

Code: F322

Product name. **RESIMALTA 212 Comp. A**

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

Intended use. **Epoxy mortar for screeds**

Identified Uses	Industrial.	Professional.	Consumer.	
Epoxy mortar	₩	↔	-	
1.3. Details of the supplier of the safety data Name. Full address. District and Country.	a sheet. Resimix s.r.l. via Pacinotti 12/14 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.

CAVp Osp. Pediatrico Bambino Gesù, Roma 06 68593726 For urgent inquiries refer to.

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:

1	riazara diaddination and maldation.		
l	Eye irritation, category 2	H319	Causes serious eye irritation.
l	Skin irritation, category 2	H315	Causes skin irritation.
l	Skin sensitization, category 1	H317	May cause an allergic skin reaction.
l	Hazardous to the aquatic environment, chronic toxicity,	H411	Toxic to aquatic life with long lasting effects.
I	category 2		



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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.

H411 Toxic to aquatic life with long lasting effects.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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 / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

P501 Dispose of contents / container in accordance with local / regional / national / international.

Contains: Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

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.

3.2. Mixtures.

Contains:

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

Classification 1272/2008 (CLP).



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Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

CAS. 9003-36-5

 $60 \le x < 100$

Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, EUH205

EC. 500-006-8

INDEX. -

Reg. no. 01-2119454392-40

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤

700).

CAS. 25068-38-6

 $10 \le x < 50$

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC. 500-033-5

INDEX. 603-074-00-8

Reg. no. 01-2119456619-26

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.



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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.



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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.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol								
Predicted no-effect concentration - PNEC.								
Normal value in fresh water Normal value for fresh water sediment				0,003 mg/l 0,294 mg/kg				
Normal value for marine water sediment Normal value for water, intermittent release				0,029 mg/kg 0,025 mg/l				
Normal value of STP microorganisms				10		mg/l		
Normal value for the terrestrial co Health - Derived no-effect I		0,237	mg/kg					
Health - Derived no-effect i			Effects on					
	Effects on consumers.				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	6,25 mg/kg bw/d				
Inhalation.			VND	8,7 mg/m3			VND	29,39 mg/m3
Skin.			VND	62,5 mg/kg bw/d	0,0083 mg/cm2	VND	VND	104,15 mg/kg bw/d
Predicted no-effect concentration Normal value in fresh water	ı - PNEC.			0,006		mg/l		
Normal value in marine water Normal value for fresh water sed				0,001 0,996		mg/l mg/kg		
Normal value for marine water sediment Normal value for water, intermittent release Normal value of STP microorganisms				0,1 mg/kg 0,018 mg/l 10 mg/l				
Normal value for the food chain (secondary poisoning)				11 mg/kg				
Normal value for the terrestrial compartment 0,196 Health - Derived no-effect level - DNEL / DMEL								
Health - Derived no-effect i	Effects on consumers.	WIEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.	VND	0,75 mg/kg bw/d	VND	0,75 mg/kg bw/d				
Inhalation.					VND	12,25 mg/m3	VND	12,25 mg/m3
Skin.	VND	3,571 mg/kg bw/d	VND	3,571 mg/kg bw/d	VND	8,33 mg/kg bw/d	VND	8,33 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.



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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 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.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

Material of gloves for long term application (BTT> 480 min): ethyl vinyl alcohol laminate (EVAL), butyl rubber.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance liquid Colour straw yellow Odour mild Odour threshold. Not available. Not available. Melting point / freezing point. Not available. Initial boiling point. > 200 °C. Boiling range. Not available. Flash point. > 200 °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. 1.20

Solubility insoluble in water
Partition coefficient: n-octanol/water Not available.
Auto-ignition temperature. Not available.
Decomposition temperature. > 200°C

Viscosity 6500 - 8000 cP (25°C)



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Explosive properties Oxidising properties Not available. 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.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Stable in normal conditions of use and storage.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). No data available about the reactivity on the product itself.

10.2. Chemical stability.

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

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Stable in normal conditions of use and storage.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). 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.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol By weight over 0,5 kg to add an aminic base substance drives to a strong exothermic reaction. The reaction with aminic components is not reversible.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). By weight over 0,5 kg to add an aminic base substance drives to a strong exothermic reaction. The reaction with aminic components is not reversible .

10.4. Conditions to avoid.



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

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Avoid exposure to: high temperatures.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

Avoid exposure to: high temperatures.

The thermal decomposition develops gases which can cause pressure in closed systems.

10.5. Incompatible materials.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Avoid contact with: oxidising agents, acids, bases.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). Avoid contact with: oxidising agents, acids, bases. Avoid unintended contact with amines.

10.6. Hazardous decomposition products.

Formaldehyde, oligomeric reaction products with 1-chloro-2.3-epoxypropane and phenol The thermal decomposition develops: carbon monoxide, water, phenols, phenolic derivatives.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). The thermal decomposition develops: carbon monoxide, water, phenols, phenolic derivatives. An uncontrolled exothermic reaction build up phenolic derivatives, carbon monoxide and water.

SECTION 11. Toxicological information.

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).

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

LD50 (Oral).> 2000 mg/kg female rat

LD50 (Dermal).> 2000 mg/kg male/female rat

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

LD50 (Oral).> 5000 mg/kg male/female rat

LD50 (Dermal).> 2000 mg/kg male/female rat

SKIN CORROSION / IRRITATION.



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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.

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.**

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

LC50 - for Fish. 3,6 mg/l/96h Salmo gairdneri EC50 - for Crustacea. 1,7 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic 9,4 mg/l/72h Scenedesmus capricornutum

Plants.

Chronic NOEC for 0,3 mg/l Daphnia magna

Crustacea.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and

phenol

LC50 - for Fish. 0,55 mg/l/96h Leuciscus idus
EC50 - for Crustacea. 1,6 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic 1,8 mg/l/72h Pseudokirchnerella subcapitata

Plants.

Chronic NOEC for 0,3 mg/l Daphnia magna

Crustacea.

12.2. Persistence and degradability.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). Solubility in water.

Solubility in water. slightly soluble > 5,4 - < 8,4 mg/l

NOT rapidly biodegradable. 5 % 28 d

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and

phenol

Solubility in water. slightly soluble 20 mg/l



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NOT rapidly biodegradable.

0 % 28 d

12.3. Bioaccumulative potential.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). BCF.

31

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

BCF. 150 l/kg

12.4. Mobility in soil.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). Partition coefficient:

2,65

soil/water.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Partition coefficient:

3,65

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.

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.



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SECTION 14. Transport information.

14.1. UN number.

ADR / RID, IMDG,

3082

IATA:

IATA:

ADR / RID:

In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not

submitted to ADR

provisions.

IMDG: In accordance with Section

with Section
2.10.2.7 of IMDG
Code, this
product, when is
packed in
receptacles of a
capacity ≤ 5Kg or
5L, is not
submitted to
IMDG Code

submitted to IMDG Code provisions. In accordance with SP A197,

this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods

regulations.

14.2. UN proper shipping name.

ADR / RID: ENVIRONMENT

ALLY

HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin, bisphenol F epoxy resin) ENVIRONMENT

IMDG: ENVIRONMEN

ALLY

HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin, bisphenol F epoxy resin) FANVIRONMENT

IATA: ENVIRONMENT

ALLY

HAZARDOUS



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code: (E)

Packaging instructions:

Packaging

instructions: 964

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SUBSTANCE, LIQUID, N.O.S. (bisphenol A epoxy resin, bisphenol F epoxy resin)

14.3. Transport hazard class(es).

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9



14.4. Packing group.

ADR / RID, IMDG, Ш

IATA:

14.5. Environmental hazards.

ADR / RID: Environmentally

Hazardous.

IMDG: Marine Pollutant.

IATA: Environmentally

Hazardous.



Maximum quantity: 450

14.6. Special precautions for user.

ADR / RID: HIN - Kemler: 90 Limited Tunnel Quantities: 5 restriction

Special Provision: -

IMDG: EMS: F-A, S-F Limited

Quantities: 5

Cargo:

Pass.: Maximum

quantity: 450

A97, A158, Special Instructions: A197

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

Information not relevant.

IATA:



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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.

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 authorisarion (Annex XIV REACH).

None.

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

3

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:

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

H319 Causes serious eye irritation.



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H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

I EGEND.

- 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).

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
- 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: first issue.