



622 - Q-RASANTE (A)

Printed on 10/05/2021
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Replaced revision:3 (Dated 27/11/2020)

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: 622

Product name Q-RASANTE (A)

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

RAPID HARDENING EPOXIDE MORTAR FOR LEVELLING.

1.3. Details of the supplier of the safety data sheet

NORD RESINE S.p.A. Full address Via Fornace Vecchia, 79

District and Country 31058 Susegana (TV)

Italia

Tel. +39 0438-437511 Fax +39 0438-435155

e-mail address of the competent person

responsible for the Safety Data Sheet annabreda@nordresine.com

NORD RESINE S.p.A. Product distribution by:

1.4. Emergency telephone number

For urgent inquiries refer to +39 0438 437511

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation

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 eve 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 H411 Toxic to aquatic life with long lasting effects.

toxicity, category 2

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.



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SECTION 2. Hazards identification .../>>

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements:

P280 Wear protective gloves / eye protection / face protection.

P273 Avoid release to the environment.

P391 Collect spillage.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

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

P337+P313 If eye irritation persists: Get medical advice / attention.

Contains: ALKYL (C12-14) GLYCIDYL ETHER

Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and

[2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

 ${\bf 2,2'\text{-}[(1\text{-}methylethylidene)bis(4,1\text{-}phenyleneoxymethylene)]} bis oxirane$

CAS 1675-54-3 50 ≤ x < 75 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 216-823-5

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Reg. no. 01-2119456619-26

 $Reaction\ mass\ of\ 2,2'-[methylenebis (4,1-phenyleneoxymethylene)] dioxirane\ and$

 $\label{lem:control_control_control_control} \end{\colored} \begin{tabular}{ll} [2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl) oxirane and \end{\colored} and \end{\colored} \begin{tabular}{ll} [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane and \end{\colored} \begin{tabular}{ll} [2,2'-[methylenebis(2,1-phenyleneoxymethyleneoxym$

CAS 9003-36-5 25 ≤ x < 35 Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 701-263-0

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Reg. no. 01-2119454392-40 ALKYL (C12-14) GLYCIDYL ETHER

CAS 68609-97-2 15 ≤ x < 25 Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 271-846-8 INDEX 603-103-00-4 Reg. no. 01-2119485289-22

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

SECTION 4. First aid measures

4.1. Description of first aid measures

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.



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SECTION 4. First aid measures

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. 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



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

	2,	2'-[(1-methylethy	ylidene)bis(4,1-	-phenyleneoxy	/methylene)]b	isoxirane			
redicted no-effect cor	ncentration	- 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							mg/kg		
Normal value for marine water sediment						0,0996	mg/kg		
ealth - Derived no-eff	ect level - D	NEL / DMEL					0 0		
	Effects on consumers Effects on v					workers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic	
·	local	systemic	local	systemic	local	systemic	local	systemic	
Oral		•	VND	0,75		•		•	
				mg/kg/d					
Inhalation				<u> </u>			VND	12,25	
								mg/m3	
Skin			VND	3,571			VND	8.33	
				mg/kg/d				mg/kg	

!-({2-[4-(oxiran-2-ylme	thoxy)benz	zyl]phenoxy}met	thyl)oxirane an	d				
2,2'-[methylenebis(2,1	-phenylene	oxymethylene)]	dioxirane					
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh water						0,003	mg/l	
Normal value for fresh water sediment						0,294	mg/kg	
Normal value for marine water sediment						0,029	mg/kg	
Normal value for water, intermittent release							mg/l	
Normal value of STP	microorgan	isms				10	mg/l	
Normal value for the	terrestrial co	mpartment				0,237	mg/kg	
lealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
rtouto or oxpoduro		systemic	local	systemic	local	systemic	local	systemic
reace of exposure	local	Systernic	iooai	- ,				
Oral	local	Systemic	iodai	6,25		•		
	local	Systemic	iodai	,		,		
	local	Зузістно	i Codi	6,25		,		29,39
Oral	local	Зузістно	10001	6,25 mg/kg bw/d		,		29,39 mg/m3
Oral	local	Systemic	10001	6,25 mg/kg bw/d 8,7		,		,

			ALKYL (C12-14	I) GLYCIDYL E	THER				
Predicted no-effect cor	ncentration	- 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		
Normal value for marine water sediment						6,677	mg/kg		
Normal value of STP microorganisms						10	mg/l		
Normal value for the terrestrial compartment						80,12	mg/kg		
Health - Derived no-eff	ect level - D	NEL / DMEL							
	Effects on consumers				Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic	
Inhalation								13,8	
								mg/m3	
Skin								3,9	
								mg/kg	
								bw/d	

 $\label{eq:nonlinear} VND = hazard \ identified \ but \ no \ DNEL/PNEC \ available \quad ; \quad NEA = no \ exposure \ expected \quad ; \quad NPI = no \ hazard \ identified.$

8.2. Exposure controls



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SECTION 8. Exposure controls/personal protection

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (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 Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 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

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

Properties Value Appearance liquid Colour colourless Odour characteristic Odour threshold Not available рΗ Not available Melting point / freezing point Not available Initial boiling point 200 °C Not available Boiling range Flash point 150 °C Not available **Evaporation Rate** 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 1,13 kg/l Solubility soluble in organic solvents

Partition coefficient: n-octanol/water Not available Not available Auto-ignition temperature Decomposition temperature Not available Not available Viscosity Explosive properties Not available Oxidising properties Not available

9.2. Other information

Information not available



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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

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ALKYL (C12-14) GLYCIDYL ETHER

LD50 (Dermal) > 10000 mg/kg Rat

 $Reaction\ mass\ of\ 2,2'-[methylenebis (4,1-phenyleneoxymethylene)] dioxirane\ and$

 $[2-(\{2-[4-(oxiran-2-y|methoxy)benzy]] phenoxy\} methyl) oxirane \ and \ [2,2'-[methylenebis(2,1-phenyleneoxymethylene)] dioxirane \ and \ [2,2'-[methylenebis(2,1-phenyleneoxymethyleneox$

LD50 (Oral) > 5000 mg/kg Rat LD50 (Dermal) > 2000 mg/kg Rat

SKIN CORROSION / IRRITATION





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SECTION 11. Toxicological information .../>>

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

ALKYL (C12-14) GLYCIDYL ETHER

LC50 - for Fish > 5000 mg/l/96h Rainbow trout

 $Reaction \ mass \ of \ 2,2'-[methylenebis (4,1-phenyleneoxymethylene)] dioxirane \ and$

 $[2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl) oxirane \ and \ [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane \ and \ [2,2'-[methylenebis(2,1-phenyleneoxymethyle$

LC50 - for Fish 2,54 mg/l/96h

EC50 - for Crustacea 2,55 mg/l/48h Daphnia Magna

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

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane LC50 - for Fish 1,5 mg/l/96h Fish

12.2. Persistence and degradability

ALKYL (C12-14) GLYCIDYL ETHER

Solubility in water 0,483 mg/l

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Solubility in water $0,1-100 \ mg/l$

NOT rapidly degradable

12.3. Bioaccumulative potential





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SECTION 12. Ecological information .../>>

ALKYL (C12-14) GLYCIDYL ETHER

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2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
Partition coefficient: n-octanol/water > 2,918

12.4. Mobility in soil

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Partition coefficient: soil/water 2,65

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 ≥ 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

IMDG:

IATA:

ADR / RID, IMDG, IATA: 3082

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 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 provisions.

IATA: 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: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 $(2,2'\hbox{-}[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane; Reaction \ mass \ of$

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 $(2,2'\hbox{-}[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane; Reaction \ mass \ of \ an algorithms are also in the property of the property of$

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Reaction mass of

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane)



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SECTION 14. Transport information .../>>

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, IATA:

14.5. Environmental hazards

ADR / RID:

Environmentally Hazardous

IMDG:

Marine Pollutant

IATA:

Environmentally Hazardous



14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 90

Limited Quantities: 5 L

Tunnel restriction code: (-)

IMDG:

Special Provision: -EMS: F-A, S-F Cargo:

Limited Quantities: 5 L Maximum quantity: 450 L Maximum quantity: 450 L

Special Instructions: A97, A158, A197

Packaging instructions: 964
Packaging instructions: 964

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

Pass.:

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 ≥ 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

ΕN



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SECTION 15. Regulatory information .../>>

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2 Skin Sens. 1 Skin sensitization, category 1

Hazardous to the aquatic environment, chronic toxicity, category 2 **Aquatic Chronic 2**

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.

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
- PFI · 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 (EC) 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



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SECTION 16. Other information .../>>

- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

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

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 11 / 12 / 14.