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PAVINEUCE EPOXY - Pavements Epoxy Paint

Code: 11240500



[X] Industrial [X] Professional [\_] Consumers

Version: 6 Revision: 21/01/2020 Previous revision: 07/02/2019 Date of printing: 21/01/2020

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER: PAVINEUCE EPOXY - Pavements Epoxy Paint Code: 11240500

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Intended uses (main technical functions): # Two-pack performance coating, solvent-borne.

# Industrial manufacturing (SU3).

# Professional uses (SU22).

Uses advised against

This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as

'Intended or identified uses'.

Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:

Not restricted.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

NEUCE - Indústria de Tintas, S.A.

Rua Francisco Rocha - Aptdo. 4514 - 3700-892 - Romariz SJM (Portugal)

Phone: +351 256 840040 - Fax: +351 256 840049

E-mail address of the person responsible for the Safety Data Sheet:

e-mail: geral@neuce.pt

1.4 EMERGENCY TELEPHONE NUMBER: +351 256 840041 (9:00-18:30 h.) (working hours)

### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification of mixtures is carried out in accordance with the following principles: a) when data (tests) for the classification of mixtures are available, generally is carried out based on these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture.

ssification in accordance with Regulation (EU) No. 1272/2008~2018/1480 (CLP):

WARNING: Flam. Liq. 3:H226 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | Skin Sens. 1:H317 | STOT SE (irrit.) 3:H335 | STOT RE 2:H373 | Aquatic Chronic 3:H412

Danger class	Classification of the mixture	Cat.	Routes of exposure	Target organs	Effects
Physicochemical:   Human health:  Environment:	Flam. Liq. 3:H226 c) Skin Irrit. 2:H315 c) Eye Irrit. 2:H319 c) Skin Sens. 1:H317 c) STOT SE (irrit.) 3:H335 c) STOT RE 2:H373 c) Aquatic Chronic 3:H412 c)	Cat.3 Cat.2 Cat.2 Cat.1 Cat.3 Cat.2 Cat.3	Skin Eyes Skin Inhalation Inhalation -	Skin Eyes Skin Respirat cry tract Systemic -	- Irritation Irritation Allergy Irritation Damage -

Full text of hazard statements mentioned is indicated in section 16.

Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.

#### 2.2 LABEL ELEMENTS:



This product is labelled with the signal word WARNING in accordance with Regulation (EU) No. 1272/2008~2018/1480 (CLP)

Hazard statements:

H226 Flammable liquid and vapour.

H373i May cause damage to organs through prolonged or repeated exposure if inhaled.

H319 Causes serious eye irritation. H335 May cause respiratory irritation. Causes skin irritation. H315

H317 May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects. H412

Precautionary statements: P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280F Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection.

P363 Wash contaminated clothing before reuse.



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P303+P361+P353-P352-P312 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash with

plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. P305+P351+P338-P310

P273-P501a Avoid release to the environment. Dispose of contents/container in accordance with local regulations.

<u>Supplementary statements:</u>

EUH 208 Contains 2-butanone-oxime. May produce an allergic reaction.

Substances that contribute to classifications Epoxy resin (average molecular weight ~1000)

Xvlene (mixture of isomers)

Hydrocarbons C9 aromatics Toluene

2.3 OTHER HAZARDS:

Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:

Other physicochemical hazards: Vapours may form with air a mixture potentially flammable or explosive.

Other adverse human health effects: # Prolonged exposure to vapours may produce transient drowsiness. Prolonged contact may cause skin dryness.

Other negative environmental effects: Does not contain substances that fulfil the PBT/vPvB criteria.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 SUBSTANCES:

Not applicable (mixture).

3.2 MIXTURES:

This product is a mixture.

Chemical description:

30 < 40 %

# Mixture of pigments, resins and additives in organic solvents.

**HAZARDOUS INGREDIENTS:** 

Substances taking part in a percentage higher than the exemption limit:

<b>(1)</b>	CAS: 25036-25-3 , List No. 607-500-3 CLP: Warning: Skin Irrit. 2:H315   Eye Irrit. 2:I	REACH: Exempt (polymer) H319   Skin Sens. 1:H317	Autoclassified
10 < 1	010 1000 00 7 70 015 505 7		Index No. 601-022-00-9 < REACH

5 < 10 %	Hydrocarbons C9 aromatics
$\wedge \wedge \wedge$	(CAS: 64742-95-6) , List No. 918-668-5
	CLP: Danger: Flam. Liq. 3:H226   STOT SE (ir rit.) 3: H335
$\overline{}$	LA T 1-11204 LA

Epoxy resin (average molecular weight ~1000)

REACH: 01-2119455851-35 CLP: Danger: Flam. Liq. 3:H226 | STOT SE (irrit.)3: H335 | STOT SE (narcosis) 3:H336

| Asp. Tox. 1:H304 | Aquatic Chronic 2:H411 | EUH066

2,5 < 5 % Isobutylmethylketone CAS: 108-10-1, EC: 203-550-1  $\langle \rangle \langle \rangle$ 

REACH: 01-2119473980-30 Index No. 606-004-00-4 CLP: Danger: Flam. Liq. 2:H225 | Acute Tox. (inh.) 4:H332 | Eye Irrit. 2:H319 | STOT < REACH / CLP00 SE (irrit.) 3:H335 | EUH066

1 < 2,5 %  $\textcircled{\Rightarrow} \textcircled{?}$ 

CÁS: 108-94-1, EC: 203-631-1 REACH: 01-2119453616-35 CLP: Danger: Flam. Liq. 3:H226 | Acute Tox. (inh.) 4:H332 | Acute Tox (skin) 4:H312 | Acute Tox. (oral) 4:H302 | Skin Irrit. 2:H315 | Eyé Dam. 1:H318

1 < 2 % CAS: 107-98-2, EC: 203-539-1 REACH: 01-2119457435-35 Index No. 603-064-00-3 **⟨७**⟩⟨!⟩ CLP: Warning: Flam. Lig. 3:H226 | STOT SE (narcosis) 3:H336 < REACH / ATP01

1 < 2 % **③◆** 

CAS: 108-88-3, EC: 203-625-9 REACH: 01-2119471310-51 CLP: Danger: Flam. Liq. 2:H225 | Skin Irrit. 2:H315 | Repr. 2:H361id | STOT SE

(narcosis) 3:H336 | STOT RE 2:H 373 ii | Asp. Tox. 1:H304 | Aquatic Chronic 3:H412

Solvent naphtha (petroleum), light aromatic CAS: 64742-95-6, EC: 265-199-0 0,1 < 0,3 %

REACH: 01-2119486773-24 CLP: Danger: Flam. Liq. 3:H226 | Skin Irrit. 2:H315 | STOT SE (rar cos s ) 3:H336 | Asp. Tox. 1:H304 | Aquatic Chronic 2:H411

< 0,20 % 2-butanone-oxime CAS: 96-29-7, EC: 202-496-6 **⟨₹⟩⟨\$**⟩⟨!⟩

CLP: Danger: Acute Tox. (skin) 4:H312 | Eye Dam. 1:H318 | Skin Sens. 1:H317 | Carc.

Index No. 649-356-00-4

(Note H,P)

Index No. 601-021-00-3

Index No. 606-010-00-7

< REACH / ATP01

Autoclassified

< REACH

< REACH

< REACH

Index No. 616-014-00-0

< CLP00





### Impurities:

# Content of benzene < 0.1%.

### Stabilizers:

None

### Reference to other sections:

For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

# SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 15/01/2019.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:

Does not contain substances that fulfil the PBT/vPvB criteria.

### **SECTION 4: FIRST AID MEASURES**

#### 4.1 **DESCRIPTION OF FIRST-AID MEASURES:**



Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Lifequards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	# Inhalation of solvent vapours may produce headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Inhalation produces irritation to mucus, coughing and breathlessness.	Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
Skin:	# Skin contact causes redness. Prolonged contact may cause skin dryness.	# Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners. In the case of skin reddening or rashes, contact a doctor immediately.
Eyes:	Contact with the eyes produces redness and pain.	# Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.
Ingestion:	If swallowed, may cause irritation of the throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea.	If swallowed, seek medical advice immediately and show container or label. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

#### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: 4.2

The main symptoms and effects are indicated in sections 4.1 and 11.1

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient.

Antidotes and contraindications: Specific antidote not known.

### **SECTION 5: FIRE-FIGHTING MEASURES**

5.1 EXTINGUISHING MEDIA

Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

# Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

#### 5.3 ADVICE FOR FIREFIGHTERS:

Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance. The standard EN469 provides a basic level of protection for chemical incidents ther recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.



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### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

ERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: 6.1 Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke, Avoid direct contact with this product, Avoid breathing vapours. Keep people without protection in opposition to the wind direction

6.2 ENVIRONMENTAL PRECAUTIONS:

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

# Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Clean preferably with a biodegradable detergent. Avoid use of solvents. Keep the remains in a closed container.

6.4 REFERENCE TO OTHER SECTIONS

For contact information in case of emergency, see section 1.

For information on safe handling, see section 7.

For exposure controls and personal protection measures, see section 8.

For waste disposal, follow the recommendations in section 13.

### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Comply with the existing legislation on health and safety at work.

General recommendation

Avoid any type of leakage or escape. Keep the cort ainer tightly closed.

tions for the prevention of fire and explosion risl

Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.

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- Flash point

Autoignition temperature

Recommendations for the prevention of toxicological risks:

# Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

Recommendations for the prevention of environmental contamination:

# Avoid any spillage in the environment. Pay special attention to the cleaning water. In the case of accidental spillage, follow the instructions

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Forbid the entry to unauthorized persons. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.

Class of storage According to current legislation.

Maximum storage period

24. months Temperature interval min: 5. °C, max: 35. °C (recommended).

Incompatible materia

# Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.

According to current legislation.

Limit quantity (Seveso III): Directive 2012/18/EU:

- Named dangerous substances/mixtures: None
- Hazard categories and lower-/upperthreshold quantities in tonnes (t):
- · Physical hazards: Flammable liquid and vapour (P5c) (5000t/50000t).
- · Health hazards: Not applicable
- Environmental hazards: Not applicable
- · Other hazards: Not applicable.
- Threshold quantity for the application of lower-tier requirements: 5000 tons
- Threshold quantity for the application of upper-tier requirements: 50000 tons

The qualifying quantities set out above relate to each establishment. The quantities to be considered for the application of the relevant Articles are the maximum quantities which are present or are likely to be present at any one time. Dangerous substances present at an establishment only in quantities equal to or less than 2 % of the relevant qualifying quantity shall be ignored for the purposes of calculating the total quantity present, if their location within an establishment is such that it cannot act as an initiator of a major accident elsewhere at that establishment. For more details, see note 4 of Annex I of the Seveso Directive.



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#### 7.3 FCTFTC FND LISES:

For the use of this product do not exist particular recommendations apart from that already indicated.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

### OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2018	<u>Year</u>	TLV-TWA		TLV-STEL		Remarks
Xvlene	1996	ppm 100.	mg/m3 434.	ppm 150.	mg/m3 651.	A4 , BEI
	1990			130.	031.	
Hydrocarbons C9 aromatics		50.	290.	-	-	Recommended
Isobutylmethylketone	1981	50.	205.	75.	307.	BEI
Cyclohexanone	1990	20.	80.	50.	200.	A3, Skin, BEI
1-methoxy-2-propanol	1976	100.	369.	150.	553.	
Toluene	2007	20.	75.	-	-	A4,BEI
Solvent naphtha (petroleum), light aromatic		50.	290.	-	-	Internal value

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

Skin - Danger of cutaneous absorption.

A3 - Carcinogenic in animals.

A4 - Non classified as carcinogenic in humans.

BEI - Biological exposure index (biological monitoring).

Dermal (Vd): Means that, in exposures to this substance, the contribution by the cutaneous route, including the mucous membranes and eyes, may result significant for the overall body content if no measures are taken to prevent absorption. There are some chemicals for which dermal absorption, both in liquid and vapour phases, can be very high, and this route of entry may be or equal or greater importance even that inhalation pathway. In these situations, the use of a biological control is essential in order to quantify the overall amount of contaminant absorbed.

# **BIOLOGICAL LIMIT VALUES**

This preparation contains the following substances that have established a biological limit value:

- Xylenes (technical or commercial grade) (2011): Biological determinant: methyl hippuric acids in urine, BEI: 1.5 g/g c reatinine, Sampling time:
- Methyl isobutyl ketone (2009): Biological determinant: methyl isobutyl ketone in urine, BEI: 1 mg/l, Sampling time: end of shift (2).
- Cyclohexanone (2003): 1º) Biological determinant: 1,2-cyclohexanediol in urine, BEI: 80 mg/l, Sampling time: end of shift at end of workweek (1), Notation: (Ns) (Sq), with hydrolisis (9). 2º) Biological determinant: cyclohexanol in urine, BEI: 8 mg/l, Sampling time: end of shift (1), Notation: (Ns) (Sq), with hydrolisis (9).
- Toluene (2009): 10) Biological determinant: toluene in blood, BEI: 0.02 mg/l, Sampling time: prior to last shift of workweek (5). 20) Biological determinant: toluene in urine, BEI: 0.03 mg/l, Sampling time: end of shift (2). 39) Biological determinant: o-cresol in urine, BEI: 0.3 mg/g creatinine, Sampling time: end of shift (2), Notation: (B).
- (1) It means after four or five consecutive days of work with exposure, as soon as possible after the end of the last day, since the biological indicators are eliminated with half lives longer than five hours. These indicators accumulate in the body during the work week, therefore the sampling time is critical in relation to previous exposures.
- (2) When the end of the exposition not coincide with the end of the working day, the sample will be taken as soon as possible after the real exposition ceases.
- (5) Means before the beginning of the fifth consecutive day of exposure.
- (9) It means that the metabolite has to be determined after hydrolising the sample.
- (B) Background. The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration that could affect interpretation of the result. Such background concentrations are incorporated in
- (Ns) Non-specific. The determinant is non-specific, since it is also observed after exposure to other chemicals.
- (Sq) Semi-quantitative. The biological determinant is an indicator of exposure to the chemical, but the quantitative interpretation of the measurement is ambiguous. These determinants should be used as a sceening test if a quantitative test is not practical or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.

### DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers:	<b>DNEL Inhalation</b>		DNEL Cutaneous		DNEL Oral	
- Systemic effects, acute and chronic:	mg/m3		mg/kg bw/d		mg/kg bw/d	
Epoxy resin (average molecular weight ~1000)	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Xylene (mixture of isomers)	289. (a)	77.0 (c)	s/r (a)	180. (c)	- (a)	- (c)
Hydrocarbons C9 aromatics	- (a)	150. (c)	- (a)	25.0 (c)	- (a)	- (c)
Isobutylmethylketone	208. (a)	83.0 (c)	- (a)	11.8 (c)	- (a)	- (c)
Cyclohexanone	80.0 (a)	40.0 (c)	4.00 (a)	4.00 (c)	- (a)	- (c)
1-methoxy-2-propanol	- (a)	369. (c)	- (a)	50.6 (c)	- (a)	- (c)
Toluene	384. (a)	192. (c)	s/r (a)	384. (c)	- (a)	- (c)
Solvent naphtha (petroleum), light aromatic	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)

- (a) Acute, short-term exposure, (c) Chronic, long-term or repeated exposure.
- (-) DNEL not available (without data of registration REACH).
- s/r DNEL not derived (not identified hazard).



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# DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers: - Systemic effects, acute and chronic: Epoxy resin (average molecular weight ~1000) Xylene (mixture of isomers) Hydrocarbons C9 aromatics Isobutylmethylketone Cyclohexanone 1-methoxy-2-propanol Toluene Solvent naphtha (petroleum), light aromatic	- (a) 1 208. (a) 8 80.0 (a) 4 - (a) 3	- (c) 77.0 (c) 150. (c) 83.0 (c) 40.0 (c) 369. (c) 192. (c) - (c)	DNEL Cutaneous mg/kg bw/d - (a) s/r (a) - (a) - (a) 4.00 (a) - (a) s/r (a) - (a)	- (c) 180. (c) 25.0 (c) 11.8 (c) 4.00 (c) 50.6 (c) 384. (c) - (c)	DNEL Oral mg/kg bw/d - (a) - (a) - (a) - (a) - (a) - (a) - (a) - (a)	- (c) - (c) - (c) - (c) - (c) - (c) - (c)
Derived no-effect level, workers: - Local effects, acute and chronic: Epoxy resin (average molecular weight ~1000) Xylene (mixture of isomers) Hydrocarbons C9 aromatics Isobutylmethylketone Cyclohexanone 1-methoxy-2-propanol Toluene Solvent naphtha (petroleum), light aromatic	80.0 (a) 4 554. (a)	- (c) s/r (c) - (c) 83.0 (c) 40.0 (c) - (c) 192. (c) - (c)	DNFL Cutaneous mg/cm2 - (a) s/r (a) - (a) - (a) s/r (a) - (a) s/r (a) - (a)	- (c) s/r (c) - (c) - (c) s/r (c) - (c) s/r (c) - (c) - (c)	DNFL Eyes mg/cm2 - (a) - (a) - (a) - (a) - (a) - (a) - (a) - (a)	- (c) - (c) - (c) - (c) - (c) - (c) - (c)

### Derived no-effect level, general population:

Not applicable (product for professional or industrial use).

- (a) Acute, short-term exposure, (c) Chronic, long-term or repeated exposure.
- (-) DNEL not available (without data of registration REACH). s/r DNEL not derived (not identified hazard).

### PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermittent release: Epoxy resin (average molecular weight ~1000) Xylene (mixture of isomers) Hydrocarbons C9 aromatics Isobutylmethylketone Cyclohexanone 1-methoxy-2-propanol Toluene Solvent naphtha (petroleum), light aromatic	PNEC Fresh water mg/I  0.327 uvcb 0.600 0.0329 10.0 0.680 uvcb	PNEC Marine mg/I  0.327  uvcb 0.0600 0.00329 1.00 0.680 uvcb	PNEC Intermittent mg/I  0.327  uvcb  1.50  0.329  100.  0.680  uvcb
- Wastewater treatment plants (STP) and sediments in fresh- and marine water:  Epoxy resin (average molecular weight ~1000)  Xylene (mixture of isomers)  Hydrocarbons C9 aromatics  Isobutylmethylketone  Cyclohexanone  1-methoxy-2-propanol  Toluene  Solvent naphtha (petroleum), light aromatic	PNEC STP mg/I - 6.58 uvcb 27.5 10.0 100. 13.6 uvcb	PNEC Sediments mg/kg dw/d - 12.5 uvcb 8.27 0.168 52.3 16.4 uvcb	PNEC Sediments mg/kg dw/d  12.5 uvcb 0.830 0.0168 5.20 16.4 uvcb
Predicted no-effect concentration, terrestrial organisms:  - Air, soil and effects for predators and humans:  Epoxy resin (average molecular weight ~1000)  Xylene (mixture of isomers)  Hydrocarbons C9 aromatics  Isobutylmethylketone  Cyclohexanone  1-methoxy-2-propanol  Toluene  Solvent naphtha (petroleum), light aromatic	PNEC Air mg/m3	PNEC Soil mg/kg dw/d 2.31 uvcb 1.30 0.0143 5.49 2.89 uvcb	PNEC Oral mg/kg dw/d uvcb uvcb

### (-) - PNEC not available (without data of registration REACH).

uvcb - The substance has an unknown or variable composition (UVCB). The conventional methods to derive the PNEC are not appropriate and it is not possible to identify a single PNEC representative for these substances, and therefore not used in calculations for risk assessment.



8.2

PAVINEUCE EPOXY - Pavements Epoxy Paint



### EXPOSURE CONTROLS:

### **ENGINEERING MEASURES:**











# Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system: # Avoid the inhalation of vapours.

Protection of eyes and face: It is recommended to install water taps, sources or eyewash bottles with clean water close to the working area.

Protection of hands and skin: It is recommended to install water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

### OCCUPATIONAL EXPOSURE CONTROLS: Regulation (EU) No. 2016/425:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, cleaning maint enance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc...), you should consult the informative brochures provided by the

manufacturers of PPE.	
Mask:_	A-type filter mask (brown) for gases and vapours of organic compounds with a boil ingpoint higher than 65°C (EN14387). Class 1: low capacity up to 1000 ppm, Class 2: medium capacity up to 5000 ppm, Class 3: high capacity up to 10000 ppm. In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour or oxygen content less than 18% in volume. In presence of high concentrations ofvapour, use independent breathing apparatus.
Safety goggles:	Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.
Face shield:	No.
Gloves:	# Gloves resistant against chemicals (EN374). When repeated or prolonged contact with the product is expected, gloves of protection level 5 or higher should be used, with a breakthrough time of > 240 min. When short contact with the product is expected, use gloves with a protection level 2 or higher should be used, with a breakthrough time > 30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, the instructions/specifications provided by the glove supplier should be taken into account. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.
Boots:	No.
Apron:	No.
Clothing:	# Advisable.

Not applicable (the product is handled at room temperature).

# **ENVIRONMENTAL EXPOSURE CONTROLS:**

Avoid any spillage in the environment. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.

<u>Spills in water:</u> Do not allow to escape into drains, sewers or water courses.

Water Management Act: This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

Emissions to the atmosphere: # Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the

- VOC (product ready for use\*): # It is applicable the Directive 2004/42/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents: PAINTS AND VARNISHES (defined in the Directive 2004/42/EC, Annex I.1): Emission subcategory j) Two-pack performance coating, solvent-borne. (VOC max. 500. g/l\* starting from 01.01.2010).
- (industrial installations): # If this product is used in an industrial installation, it must be verified if it is applicable the Directive 2010/75/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents in certain activities and installations: Solvents: 27.7% Weight.

Relative air

Relative

Relative water



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### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1	INFORMATIONON BASIC PHYSICAL AND CHEMICAL PROPERTIES:
	Appearance

- Physical state Colour
- Odour
- Odour threshold
- pH-value - nH

# Change of state - Melting point

- Initial boiling point

# Density

- Vapour density Relative density
- Stability
- Decomposition temperature

- <u>Viscosity:</u>
   Kinematic viscosity
- Volatility:
   Evaporation rate
- Vapour pressure
- Vapour pressure Solubility(ies)
- Solubility in water:
- Liposolubility
- Partition coefficient: n-octanol/water

### Flammability:

- Flash point
- Upper/lower flammability or explosive limits

Autoignition temperature

Explosive properties

Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source. Not classified as oxidizing product.

\*Estimated values based on the substances composing the mixture.

#### 9.2 OTHER INFORMATION:

- Heat of combustion
- Solids
- VOC (supply)

#

# Liquid. # Diverse.

Characteristic

Not applicable

# Not miscible

# Not available

Not available (mixture).

Not applicable (non-aqueous media).

3.47\*

71.3\*

6.5\*

4.4\*

Not available (mixture untested).

24\*

Not applicable (mixture).

 $1.4 \pm 0.1$ 

Not applicable (mixture).

110.6\* °C at 760 mmHg

at 20°C 1 atm.

nBuAc=100 25°C

mmHg at 20°C kPa at 50°C

at 20/4°C

Not available (technical impossibility to obtain the data).

4935\* 72.2

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7

Kcal/kg

% Weight

### **SECTION 10: STABILITY AND REACTIVITY**

10.1	REACTIVITY:

Corrosivity to metals: It is not corrosive to metals.

Pyrophorical properties: It is not pyrophoric.

#### 10.2 CHEMICAL STABILITY:

Stable under recommended storage and handling conditions.

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis, amines.

#### 10.4 CONDITIONS TO AVOID:

Heat: Keep away from sources of heat.

Light: If possible, avoid direct contact with sunlight.

Air: The product is not affected by exposure to air, but should not be left the containers open.

Humidity: Avoid extreme humidity conditions.

Pressure: Not relevant.

Shock: The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.

#### 10.5 INCOMPATIBLE MATERIALS:

# Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.

#### HAZARDOUS DECOMPOSITION PRODUCTS: 10.6

# As consequence of thermal decomposition, hazardous products may be produced: sulfur oxides.

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# **SECTION 11: TOXICOLOGICAL INFORMATION**

No experimental toxicological data on the preparation is available. The toxic dogical dassification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2018/1480 (CLP).

#### 11.1 INFORMATIONON TOXICOLOGICAL EFFECTS:

### ACUTE TOXICITY:

Dose and lethal concentrations for individual ingredients: Epoxy resin (average molecular weight ~1000) Xylene (mixture of isomers) Hydrocarbons C9 aromatics Isobutylmethylketone Cyclohexanone 1-methoxy-2-propanol Toluene Solvent naphtha (petroleum), light aromatic 2-butanone-oxime	LD50 (OECD 401) mg/kg bw oral > 5000. Rat 4300. Rat 3592. Rat 2080. Rat 1534. Rat 4016. Rat 5580. Rat 3900. Rat 2400. Rat	LD 50 (OFCD 402) mg/kg bw cutaneous 4000. Rabbit 1700. Rabbit 3160. Rabbit > 20000. Rabbit 948. Rabbit 13000. Rabbit 12124. Rabbit 3160. Rabbit 1840. Rabbit	LC50 (OFCD 403) mg/m3-4h inhalation  > 22080. Rat > 6193. Rat > 8200. Rat > 6200. Rat > 54600. Rat > 28100. Rat > 28100. Rat > 28100. Rat
Estimates of acute toxicity (ATE) for individual ingredients: Epoxy resin (average molecular weight ~1000) Xylene (mixture of isomers) Isobutylmethylketone Cyclohexanone 2-butanone-oxime	ATE mg/kg bw oral 1534.	ATE mg/kg bw cutaneous 1100.* 1100.* 1840.	ATE mg/m3-4h inhalation

- (\*) Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for class ification of a mixture based on its components and do not represent test results.
- (-) The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure route are ignored.

3			
No observed adverse effect level 2-butanone-oxime	NOAEL Oral mg/kg bw/d 125. Rat	NOAEL Cutaneous mg/kg bw/d	NOAEC Inhalation mg/m3 90. Rat
Lowest observed adverse effect level	LOAEL Oral mg/kg bw/d	LOAEL Cutaneous mg/kg bw/d	LOAEC Inhalation mg/m3
2-butanone-oxime	40. Rat		

### INFORMATIONON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
Inhalation: Not classified	ATE > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
Skin: Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	GHS/QP 3.1.3.6.
Eyes: Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
Ingestion: Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.

GHS/CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).



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### CORROSION / IRRITATION / SENSITISATION:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Respirat any carros ion/irritation	Respiratory tract	Cat.3	# IRRITANT: May cause respiratory irritation.	GHS/QLP 1.2.6. 3.8.3.4.
Skin corrosion/irritation:	Skin	Cat.2	# IRRITANT: Causes skin irritation.	GHS/QLP 3.2.3.3.
Serious eye damage/irritation:	Eyes	Cat.2	# IRRITANT: Causes serious eye irritation.	GHS/CLP 3.3.3.3.
Respiratory sensitisation: Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.
Skin sensitisation:	Skin	Cat.1	# SENSITISING: May cause an allergic skin reaction.	GHS/QLP 3.4.3.3.

GHS/CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.3.3.: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

### ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Aspiration hazard: Not classified	-	-	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).	GHS/CLP 3.10.3.3.

GHS/CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

### | SPECIFIC TARGET OR GANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Effects	SE/RE	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Systemic:	RE	Systemic	Cat.2	# HARMFUL: May cause damage to organs through prolonged or repeated exposure if inhaled.	GHS/CLP 3.8.3.4.
Respirat cry:	SE	Respiratory tract	Cat.3	# IRRITANT: May cause respiratory irritation.	GHS/CLP 3.8.3.4.

GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

### CMR EFFECTS:

Carcinogenic effects: It is not considered as a carcinogenic product.

Genotoxicity: It is not considered as a mutagenic product.

Toxicity for reproduction: Does not harm fertility. Does not harm the unborn child.

Effects via lactation: Not classified as a hazardous product for children breast-fed.

# DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERMEX POSURE:

Routes of exposure: May be absorbed by inhalation of vapour, through the skin and by ingestion.

Short-term exposure: # Harmful by inhalation. Harmful in contact with skin. Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. Irritating to skin. May cause sensitization by skin contact. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours.

ong-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

### INTERACTIVE EFFECTS:

Not available.

### INFORMATIONA BOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:

This preparation contains the following substances for which dermal absorption can be very high: Cyclohexanone. Basic toxicokinetics: Not available.

### ADDITIONAL INFORMATION:

Not available.



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# **SECTION 12: ECOLOGICAL INFORMATION**

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008 $\sim$ 2018/1480 (CLP).

171	TOXICITY:
12.1	I IU XIU II II:

Acute toxicity in aquatic environment for individual ingredients:  Xylene (mixture of isomers) Hydrocarbons C9 aromatics Isobutylmethylketone Cyclohexanone 1-methoxy-2-propanol Toluene Solvent naphtha (petroleum), light aromatic 2-butanone-oxime	LC50 (OFCD 203) mg/l-96hours > 14. Fishes > 9.2 Fishes 179. Fishes 527. Fishes 20800. Fishes > 5.5 Fishes > 9.2 Fishes Rishes Fishes Rishes Rishes	EC50 (OECD 202) mg/l-48hours  > 16. Daphnia  > 3.2 Daphnia  200. Daphnia  800. Daphnia  23300. Daphnia  > 3.8 Daphnia  > 6.1 Daphnia  750. Daphnia	EC50 (OECD 201) mg/l-72hours > 10. Algae > 2.9 Algae 400. Algae > 33. Algae > 1000. Algae > 13. Algae > 83. Algae
No observed effect concentration  Isobutylmethylketone Toluene 2-butanone-oxime	NOEC (OECD 210) mg/l·28days 1.4 Fishes 50. Fishes	NOEC (OECD 211) mg/l-21days 30. Daphnia < 1. Daphnia > 100. Daphnia	NOEC (OECD 201) mg/l·72hours > 10. Algae
Lowest observed effect concentration  Toluene	LOEC (OECD 210) mg/l-28days 2.8 Fishes	LOEC (OECD 211) mg/l-21days	LOEC (OECD 201) mg/l-72hours

### ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
Acute aquatic toxicity: Not classified	-	# Not classified as a hazardous product with acute toxicity to aquatic life (based on available data, the classification criteria are not met).	GHS/CLP 4.1.3.5.5.3.
Chronic aquatic toxicity:	Cat.3	# HARMFUL: Harmful to aquatic life with long lasting effects.	GHS/CLP 4.1.3.5.5.4.

CLP 4.1.3.5.5.3: Classification of a mixture for acute hazards, based on summation of classified components. CLP 4.1.3.5.5.4: Classification of a mixture for chronic (long term) hazards, based on summation of classified components.

#### 12.2 PERSISTENCE AND DEGRADABILITY:

Not available.

Aerobic biodegradation	DQO	%DBO/DQO	Biodegradability
for individual ingredients:	mgO2/g	5 days 14 days 28 days	
Epoxy resin (average molecular weight ~1000)			Not easy
Xylene (mixture of isomers)	2620.	~ 52. ~ 81. ~ 88.	Easy
Hydrocarbons C9 aromatics	3195.		Easy
Isobutylmethylketone	2716.		Easy
Cyclohexanone	2608.		Easy
1-methoxy-2-propanol	1953.	~ 27. ~ 96.	Easy
Toluene	2520.		Easy
Solvent naphtha (petroleum), light aromatic	3195.		Easy
2-butanone-oxime			Inherently

Note: Biodegradability data correspond to an average of data from various bibliographic sources.

#### 12.3 BIOACCUMULATIVE POTENTIAL:

Not available.

Bioaccumulation	<u>log Pow</u>	BCF		<u>Potential</u>
for individual ingredients:  Epoxy resin (average molecular weight ~1000)		L/kg		Not available
Xylene (mixture of isomers)	3.16	57.	(calculated)	Not available
Hydrocarbons C9 aromatics	3.30	70.	(calculated)	Not available
Isobutylmethylketone	1.19	3.5	(calculated)	Not available
Cyclohexanone	0.810	2.4	(calculated)	Not available
1-methoxy-2-propanol	-0.490	3.2	(calculated)	Not available
Toluene	2.69	13.	(calculated)	Not available
Solvent naphtha (petroleum), light aromatic	3.30	70.	(calculated)	Not available
2-butanone-oxime	0.590	3.2	(calculated)	Not available

#### 12.4 MOBILITY IN SOIL:

Not available.

Mobility for individual ingredients:	log Koc	Constant of Henry Pa·m3/mol 20°C		<u>Potential</u>
Epoxy resin (average molecular weight ~1000)				Not available
Xylene (mixture of isomers)	2.25	660.	(calculated)	Not available
Hydrocarbons C9 aromatics	2.96	440.	(calculated)	Not available
Isobutylmethylketone	1.80			Not available
Cyclohexanone	1.18			Not available
1-methoxy-2-propanol	0.150	0.093	(calculated)	Not available
Toluene	2.57	680.	(calculated)	Not available
Solvent naphtha (petroleum), light aromatic	2.96	440.	(calculated)	Not available
2-butanone-oxime	0.550			Not available

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RESULTS OF PBT AND VPVB ASSESMENT: 12.5 Annex XIII of Regulation (EC) no. 1907/2006:

Does not contain substances that fulfil the PBT/vPvB criteria.

12.6 OTHER ADVERSE EFFECTS:

Ozone depletion potential: Not available.

Photochemical ozone creation potential: Not available.

Earth global warming potential: In case of fire or incineration liberates CO2.

Endocrine disrupting potential: Not available.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC~Regulation (EU) no. 1357/2014:

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Wast e should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:

Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of empting of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

<u>Procedures for neutralising or destroying the product:</u>
Controlled incineration in special facilities for chemical waste, in accordance with local regulations.

### **SECTION 14: TRANSPORT INFORMATION**

UN NUMBER: 1263 14.1

14.2 JN PROPER SHIPPING NAME:

#### TRANSPORT HAZARD CLASS(ES): 14.3

Transport by road (ADR 2019) and Transport by rail (RID 2019):

Class: III - Packing group: Classification code: Tunnel restriction code:

(D/E) 3, max. ADR 1.1.3.6. 1000 L Transport category: Limited quantities: 5 L (see total exemptions ADR 3.4) Transport document: Consignment paper.

ADR 5.4.3.4

Transport by sea (IMDG 38-16):

- Instructions in writing:

- Class: Packing group: IIIEmergency Sheet (EmS): F-E,S E First Aid Guide (MFAG): 310,313 Marine pollutant:

- Transport document: Shipping Bill of lading.

Transport by air (ICAO/IATA 2018):

Packing group: III

- Transport document: Air Bill of lading.

Transport by inland waterways (ADN):

Not available.

14.4 PACKING GROUP: See section 14.3

14.5 ENVIRONMENTAL HAZARDS:

# Not applicable.

14.6 SPECIAL PRECAUTIONS FOR USER:

Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure. Ensure adequate ventilation.

TRANSPORT IN BULK ACCORDING TO ANNEXI I OF MARPOL 73/78 AND THE IBC CODE 14.7 Not applicable.

### **SECTION 15: REGULATORY INFORMATION**

<u>EU SAFETY, HEALTH AND EN VIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u> 15.1

The regulations applicable to this product generally are listed throughout this Safety Data Sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

<u>Tactile warning of danger:</u> Not applicable (product for professional or industrial use).







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Child safety protection: Not applicable (the classification criteria are not met).

### VOC information on the label

# Contains VOC max. 495. g/l - The limit value 2004/42/CE-IIA cat. j) for the product ready for use is VOC max. 500. g/l (2010).

### OTHER REGULATIONS:

### Responsabilidade ambiental:

A utilização deste produto em Portugal fica sujeita ao regime de responsabilidade ambiental previsto no DL.147/2008.

Control of the risks inherent in major accidents (Seveso III): See section 7.2

### Other local legislations:

# The receiver should verify the possible existence of local regulations applicable to the chemical.

### 15.2 CHEMICAL SAFETY ASSESSMENT:

A chemical safety assessment has not been carried out for this mixture.

### **SECTION 16: OTHER INFORMATION**

### TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

nents according the Regulation (EU) No. 1272 2018/1480 (CLP), Annex III:

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure if inhaled. H361id Suspected of damage the unborn child if inhaled. H373iJ May cause damage to central nervous system through prolonged or repeated exposure if inhaled.

es related to the identification, classification and labelling of the substances:

Note H: The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown.

Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1% w/w benzene (EC No. 200-753-7).

EVALUATION OF THE INFORMATION ON THE DANGER OF MIXTURES: See sections 9.1, 11.1 and 12.1.

### ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

### MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- · European Chemicals Agency: ECHA, http://echa.europa.eu/
- · Access to European Union Law, http://eur-lex.europa.eu/ Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- · Threshold Limit Values, (AGCIH, 2017).
- European agreement on the international carriage of dangerous goods by road, (ADR 2019)
- · International Maritime Dangerous Goods Code IMDG including Amendment 38-16 (IMO, 2016).

### ABBREVIATIONS AND ACRONYMS

List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- · CLP: European regularion on Classificatin, Labelling amd Packaging of substances and chemical mixtures.
- · EINECS: European Inventory of Existing Commercial Chemical Substances.
- ELINCS: European List of Notified Chemical Substances.
- · CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- · UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
- SVHC: Substances of Very High Concern.
- · PBT: Persistent, bioaccumulable and toxic substances.
- vPvB: Very persistent and very bioaccumulable substances.
- · VOC: Volatile Organic Compounds.
- · DNEL: Derived No-Effect Level (REACH).
- · PNEC: Predicted No-Effect Concentration (REACH).

### FETY DATA SHEET REGULATIONS

Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORIC: Revision: Version: 5 07/02/2019 Version: 6 21/01/2020

### Changes since previous Safety Data Sheet

# Legislative, contextual, numerical, methodological and normative changes since the previous version of the present Safety Data Sheet are identified by a red-italic hash (#).

The information of this Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.