

356 - SW SOLID (A)

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Replaced revision:11 (Dated 19/09/2023)

ΕN

## **Safety Data Sheet**

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: 356

Product name SW SOLID (A)

UFI: NA50-Q0G3-U00N-2232

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

Intended use WATER-BASED EPOXY IMPREGNATING AGENT

1.3. Details of the supplier of the safety data sheet

Name 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

Supplier: NORD RESINE S.p.A.

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 2020/878

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2 H319 Causes serious eye irritation. Skin irritation, category 2 H315 Causes skin irritation.

Skin sensitization, category 1A 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:

#### ΕN



## NORD RESINE S.p.A.

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## SECTION 2. Hazards identification .../>>

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:

**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:** bis-[4-(2,3-epoxipropoxi)phenyl]propane

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

BENZYL ALCOHOL

VOC (Directive 2004/42/EC):

Two-pack reactive performance coatings for specific end use such as floors.

VOC given in g/litre of product in a ready-to-use condition : 35,39 Limit value: 140,00

- Catalysed with: 50,00 % SW SOLID (B)

### 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

## **SECTION 3. Composition/information on ingredients**

## 3.2. Mixtures

Contains:

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

bis-[4-(2,3-epoxipropoxi)phenyl]propane

INDEX 603-073-00-2 15 ≤ x < 20 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2

H411

EC 216-823-5 Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%

CAS 1675-54-3 REACH Reg. 01-2119456619-26

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

INDEX 5 ≤ x < 7 Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Chronic 2 H411

EC 701-263-0

CAS

REACH Reg. 01-2119454392-40 1-METHOXY-2-PROPANOL

INDEX 603-064-00-3  $1 \le x < 3$  Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1 CAS 107-98-2

REACH Reg. 01-2119457435-35



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### SECTION 3. Composition/information on ingredients

**BENZYL ALCOHOL** 

INDEX 603-057-00-5 1 ≤ x < 3 Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1B H317

EC 202-859-9 LD50 Oral: 1200 mg/kg

CAS 100-51-6 REACH Reg. 01-2119492630-38

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.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment: see section 4.1

## **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.



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## SECTION 6. Accidental release measures .../>

## 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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

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

#### 7.3. Specific end use(s)

Information not available

## **SECTION 8. Exposure controls/personal protection**

## 8.1. Control parameters

Regulatory references:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (IÍ. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancer(genos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea si completarea hotărârii guvernului nr. 1.093/2006
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022



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## **SECTION** 8. Exposure controls/personal protection

		bis	-[4-(2,3-epoxip	ropoxi)phenyl	]propane					
Predicted no-effect cor	ncentration	- PNEC								
Normal value in fresh	water					0,006	mg//l			
Normal value in marir	ne water					0,0006	mg/l			
Normal value for fresh	h water sedi	iment				0,996	mg/kg			
Normal value for mari	ine water se	ediment				0,0996	mg/kg			
Health - Derived no-effe	Health - Derived no-effect level - DNEL / DMEL									
	Effects of	n consumers			Effects on v	orkers				
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							VND	12,25		
								mg/m3		
Skin			VND	3,571			VND	8,33		

-({2-[4-(oxiran-2-ylme	• ,		• ,	d				
2'-[methylenebis(2,1			dioxirane					
edicted no-effect cor		- PNEC						
Normal value in fresh	water					0,003	mg/l	
Normal value for fres	h water sedi	ment				0,294	mg/kg	
Normal value for mar	ine water se	diment				0,029	mg/kg	
Normal value for water	er, intermitte	nt release				0,025	mg/l	
Normal value of STP	microorgan	isms				10	mg/l	
Normal value for the	terrestrial co	mpartment				0,237	mg/kg	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects of	n consumers			Effects on wo	rkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				6,25 mg/kg bw/d				
Inhalation				8,7				29,39
				mg/m3				mg/m3
Skin				62,5	0,0083			104,15
				mg/kg bw/d	mg/cm2			mg/kg
				0 0				bw/d



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mg/kg bw/d

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SECTION 8. Exposure controls/personal protection

				1-METHOX	Y-2-PROPANO	L			
reshold Limit V	/alue								
Type	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	270	72,09	550	146,85	SKIN			
AGW	DEU	370	100	740	200				
MAK	DEU	370	100	740	200				
VLA	ESP	375	100	568	150	SKIN			
VLEP	FRA	188	50	375	100	SKIN			
TLV	GRC	360	100	1080	300				
AK	HUN	375		568		SKIN			
GVI/KGVI	HRV	375	100	568	150				
VLEP	ITA	375	100	568	150	SKIN	Allegato XX	XXVIII D.Lgs.	81/08
TGG	NLD	375		563		SKIN			
VLE	PRT	375	100	568	150				
NDS/NDSCh	POL	180		360		SKIN			
TLV	ROU	375	100	568	150	SKIN			
MV	SVN	375	100	568	150	SKIN			
WEL	GBR	375	100	560	150	SKIN			
OEL	EU	375	100	568	150	SKIN			
TLV-ACGIH		184	50	368	100				
redicted no-effe			C						
Normal value in	fresh water	•					10	mg/l	
Normal value in							1	mg/l	
Normal value for							52,3	mg/kg	
Normal value for							5,2	mg/kg	
Normal value for	,		ase				100	mg/l	
Normal value of STP microorganisms							100	mg/l	
Normal value for							4,59	mg/kg	
ealth - Derived r									
		ects on consi				Effects on we			
Route of expos				Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	stemic	local	systemic	local	systemic	local	systemic
Oral					33 mg/kg bw/d				
Inhalation					43,9	553,5			369
					mg/m3	mg/m3			mg/m3
Skin				78				183	

				BENZY	L ALCOHOL				
hreshold Limit V	alue								
Type	Country	TWA/8h		STEL/15	STEL/15min Remarks /		Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	40	8,88	80	17,76				
AGW	DEU	22	5	44	10	SKIN	11		
NDS/NDSCh	POL	240							
MV	SVN	22	5	44	10	SKIN			
redicted no-effe	ct concentr	ation - PNE	С						
Normal value in	fresh water						1	mg/l	
Normal value in	marine water	ər					0,1	mg/l	
Normal value for	r fresh wate	r sediment					5,27	mg/kg	
Normal value for	r marine wa	ter sedimen	t				0,527	mg/kg	
Normal value for	r water, inte	rmittent rele	ase				2,3	mg/l	
Normal value of	STP micro	organisms					39	mg/l	
Normal value for	r the terrest	rial comparti	ment				0,45	mg/kg	
ealth - Derived r	o-effect lev	el - DNEL /	DMEL						
	Effe	cts on consi	umers			Effects on w	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	ıl sys	stemic	local	systemic	local	systemic	local	systemic
Oral		20			4				-
		mg	/kg bw/d		mg/kg bw/d				
Inhalation		27			5,4		110		22
		mg	mg/m3		mg/m3		mg/m3		mg/m3
Skin		20			4		40		8
		mg	/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
		_					bw/d		bw/d

mg/kg bw/d



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## SECTION 8. Exposure controls/personal protection .../>

Legend:

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

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

hazard ; MED = medium hazard ; HIGH = high hazard.

#### 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.

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 your hands with category III work gloves.

For the final choice of the material of work gloves (ref. standard EN 374) the following must be considered: compatibility, degradation, breakage and permeation time.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is unpredictable. The gloves have a wear time that depends on the duration and method of use.

Materials suitable for protective gloves; EN ISO 374:

Nitrile rubber - NBR: thickness >= 0.35mm; breakthrough time >= 480min.

Butyl rubber - IIR: thickness >= 0.5mm; breakthrough time >= 480min.

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 required

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

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

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

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

## **SECTION 9. Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	white	
Odour	characteristic	
Odour threshold	not determined	Reason for missing data:not determined
Melting point / freezing point	0 °C	
Initial boiling point	> 100 °C	
Flammability	not determined	
Lower explosive limit	not determined	Reason for missing data:not determined
Upper explosive limit	not determined	Reason for missing data:not determined
Flash point	> 100 °C	
Auto-ignition temperature	not determined	Reason for missing data:not determined
Decomposition temperature	not determined	Reason for missing data:not determined
рН	4-7	Method:ISO 4316
Kinematic viscosity	not determined	Reason for missing data:not determined
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure	not available	
Density and/or relative density	1,09 kg/l	Method:EN ISO 1675
		Temperature: 23 °C
Relative vapour density	not determined	Reason for missing data:not determined
Particle characteristics	not applicable	





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### SECTION 9. Physical and chemical properties .../>>

## 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC): 4,08 % - 44,47 g/litre VOC (volatile carbon) 2,55 % - 27,76 g/litre

## **SECTION 10. Stability and reactivity**

## 10.1. Reactivity

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

#### 1-METHOXY-2-PROPANOL

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and disolves in water and in organic solvents. With air it may slowly form explosive peroxides.

#### BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

## 1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents, strong acids.

#### BENZÝL ALCOHOL

May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.

### 10.4. Conditions to avoid

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

#### 1-METHOXY-2-PROPANOL

Avoid exposure to: air.

BENZYL ALCOHOL

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

## 10.5. Incompatible materials

#### 1-METHOXY-2-PROPANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

BENZYL ALCOHOL

Incompatible with: sulphuric acid,oxidising substances, aluminium.

## 10.6. Hazardous decomposition products

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

## **SECTION 11. Toxicological information**

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

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

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure





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### SECTION 11. Toxicological information .../>>

1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance

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

#### 1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

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

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

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

1-METHOXY-2-PROPANOL

 LD50 (Dermal):
 > 2000 mg/kg Rat

 LD50 (Oral):
 > 3739 mg/kg Rat

 LC50 (Inhalation vapours):
 30,02 mg/l/4h Rat

BENZYL ALCOHOL

LD50 (Dermal): 2000 mg/kg Rabbit

LD50 (Oral): 1200 mg/kg valore STA dalla tabella 3.1.2 dell'Allegato I del CLP

LC50 (Inhalation mists/powders): 4,178 mg/l/4h Rat

### SKIN CORROSION / IRRITATION

Causes skin irritation

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 The skin irritation of bisphenol F diglycidyl ether was determined to be mild to non-irritating based on the six Klimisch 1 and 2 studies conducted according to OECD guidelines.

In the experimental conditions used, only one product induced erythema and edema reactions above the significance threshold (score 2 for erythema or edema) and was classified as irritant according to EEC directive no. 83/467/1983. The other studies indicated mild irritation, but not sufficient to reach the classification threshold.

Two repeated dose cumulative irritation studies were performed and under the experimental conditions employed the test materials induced significant irritation after repeated application and a potential for cumulative skin irritation was found in albino rabbits. Effects on skin irritation/corrosion: slightly irritating.

## SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

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

[2-({2-[4-(oxiran-2-ylmethoxy)benzy]]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane The ocular irritation of bisphenol F diglycidyl ether was determined to be non-irritating based on the four Klimisch 1 and 2 studies conducted according to OECD guidelines. In rabbit eye irritation tests, 0.1 ml of the test material caused no irritation and no initial pain response.

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Skin sensitization



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### SECTION 11. Toxicological information .../>>

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 Bisphenol F diglycidyl ether (BPFDGE) tested positive for induction of skin sensitization in the mouse Local Lymph Node Assay (LLNA). Based on an EC3 value of 0.7%, BPFDGE is considered a strong skin sensitizer. According to ECHA guidelines, this EC3 value was converted to an EC3 value of 175 ug/cm2 and is considered the LOAEL for the induction of skin sensitization in the LLNA mouse for BPFDGE. From sensitization tests it can be concluded that BPFDGE is a sensitizer.

## 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

### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## **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

BENZYL ALCOHOL

LC50 - for Fish 10 mg/l/96h Bluegill

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

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

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

bis-[4-(2,3-epoxipropoxi)phenyl]propane

LC50 - for Fish 1,5 mg/l/96h Fish

## 12.2. Persistence and degradability

BENZYL ALCOHOL Rapidly degradable

1-METHOXY-2-PROPANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Solubility in water 0,1 - 100 mg/l

NOT rapidly degradable



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### **SECTION 12. Ecological information** .../>>

### 12.3. Bioaccumulative potential

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water < 1

bis-[4-(2,3-epoxipropoxi)phenyl]propane

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

12.4. Mobility in soil

bis-[4-(2,3-epoxipropoxi)phenyl]propane

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. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. 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 or ID number

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. (bis-[4-(2,3-epoxipropoxi)phenyl]propane;

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

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

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane;

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

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

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane;



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## **SECTION 14. Transport information** .../>>

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)

## 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:

Ш

#### 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: IATA: Special provision: -EMS: F-A, S-F

Limited Quantities: 5 L

Cargo: Maximum quantity: 450 L
Passengers: Maximum quantity: 450 L
Special provision: A97, A158, A197, A215

Packaging instructions: 964
Packaging instructions: 964

## 14.7. Maritime transport in bulk according to IMO instruments

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/EU:

F2

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

Product Point

3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable

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%.



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## SECTION 15. Regulatory information ... / >:

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

VOC (Directive 2004/42/EC):

Two-pack reactive performance coatings for specific end use such as floors.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances bis-[4-(2,3-epoxipropoxi)phenyl]propane BENZYL ALCOHOL

## SECTION 16. Other information

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

Flam. Liq. 3

Acute Tox. 4

Eye Irrit. 2

Skin Irrit. 2

Skin Sens. 1

Skin Sens. 1A

Skin Sens. 1B

Flammable liquid, category 3

Acute toxicity, category 4

Eye irritation, category 2

Skin irritation, category 2

Skin sensitization, category 1

Skin sens. 1A

Skin sensitization, category 1A

STOT SE 3 Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H226Flammable liquid and vapour.H302Harmful if swallowed.H319Causes serious eye irritation.H315Causes skin irritation.

H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.
 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
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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



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## SECTION 16. Other information .../>

- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) 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
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. 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) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII 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 / 04 / 08 / 09 / 11 / 12 / 14 / 15 / 16.