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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: 00X

Product name FONDO SL (A)

UFI: \$860-902G-7002-CTGS

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

Intended use Bi-component epoxy consolidating primer dilutable in solvent

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 1 H317 May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic H411 Toxic to aquatic life with long lasting effects.

toxicity, category 2

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





Signal words: Warning

Hazard statements:



NORD RESINE S.p.A.

00X - FONDO SL (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.

Precautionary statements:

P280 Wear protective gloves / eye protection / face protection.

P273 Avoid release to the environment.

P391 Collect spillage.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
P337+P313 If eye irritation persists: Get medical advice / attention.

Contains: Alkyl (C12-14) glycidyl ether

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

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

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

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: 137,47 Limit value: 500,00

- Catalysed with: 50,00 % FONDO SL EST (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)

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

INDEX $35 \le x < 50$ 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 25 ≤ x < 35 Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 701-263-0 CAS 9003-36-5 REACH Reg. 01-2119454392-40 Alkyl (C12-14) glycidyl ether

INDEX 603-103-00-4 12 ≤ x < 19 Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 271-846-8 CAS 68609-97-2 REACH Reg. 01-2119485289-22 2-METHOXY-1-METHYLETHYL ACETATE

INDEX 607-195-00-7 0 ≤ x < 1 Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-603-9 CAS 108-65-6

REACH Reg. 01-2119475791-29

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



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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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.



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SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

2-METHOXY-1-METHYLETHYL ACETATE

Store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

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. (II. 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 cancerígenos 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 și 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.



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

redicted no-effect cor		- PNFC	, , ,		methylene)]b			
Normal value in fresh						0,006	mg//l	
Normal value in marir						0.0006	mg/l	
Normal value for fresh		iment				0,000	mg/kg	
Normal value for mar						0.0996	mg/kg	
lealth - Derived no-eff						0,0996	mg/kg	
leaith - Derived no-eilt		Effects on workers						
Davida of sumasuma	Effects on consumers		Ohi-	Chanania	Acute Acute		Charasia	Chronio
Route of exposure	Acute	Acute	Chronic	Chronic			Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral			VND	0,75 mg/kg/d				
Inhalation				mg/ng/u			VND	12,25
								mg/m3
Skin			VND	3,571			VND	8,33
				mg/kg/d				mg/kg
2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1	thoxy)benz -phenylene	zyl]phenoxy}me oxymethylene)]	thyl)oxirane an		d			
leaction mass of 2,2'-[2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 redicted no-effect cor	thoxy)benz -phenylene ncentration	zyl]phenoxy}me oxymethylene)]	thyl)oxirane an		nd			
2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh	thoxy)benz -phenylene ncentration water	zyl]phenoxy}me oxymethylene)] - PNEC	thyl)oxirane an		d	0,003	mg/l	
2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 redicted no-effect cor	thoxy)benz -phenylene ncentration water	zyl]phenoxy}me oxymethylene)] - PNEC	thyl)oxirane an		d	0,294	mg/kg	
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresl Normal value for mar	thoxy)benz -phenylene ncentration water h water sedi ine water se	zyl]phenoxy}me oxymethylene)] - PNEC iment ediment	thyl)oxirane an		d	0,294 0,029	mg/kg mg/kg	
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresl Normal value for mar Normal value for wate	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte	zy[]phenoxy}me oxymethylene)] - PNEC iment ediment ent release	thyl)oxirane an		nd	0,294 0,029 0,025	mg/kg mg/kg mg/l	
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgan	zy[]phenoxy}me oxymethylene)] - PNEC iment ediment ent release isms	thyl)oxirane an		nd	0,294 0,029 0,025 10	mg/kg mg/kg mg/l mg/l	
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgani terrestrial co	zy[]phenoxy}me oxymethylene)] - PNEC iment ediment ent release isms ompartment	thyl)oxirane an		nd	0,294 0,029 0,025	mg/kg mg/kg mg/l	
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgan terrestrial co ect level - E	zyl]phenoxy}me oxymethylene)] - PNEC iment ediment ent release isms ompartment DNEL / DMEL	thyl)oxirane an			0,294 0,029 0,025 10 0,237	mg/kg mg/kg mg/l mg/l	
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the feath - Derived no-effe	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgan terrestrial co ect level - E Effects of	cyl[phenoxy]meroxymethylene)] - PNEC iment ediment ent release isms ompartment DNEL / DMEL n consumers	thyl)oxirane an dioxirane	d	Effects on w	0,294 0,029 0,025 10 0,237	mg/kg mg/kg mg/l mg/l mg/kg	
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgan terrestrial co ect level - D Effects of Acute	cyl]phenoxy}me oxymethylene)] - PNEC iment ediment ent release isms ompartment DNEL / DMEL n consumers Acute	thyl)oxirane an dioxirane Chronic	d	Effects on w Acute	0,294 0,029 0,025 10 0,237 vorkers Acute	mg/kg mg/kg mg/l mg/l mg/kg	Chronic
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the following the state of the following the state of the state of exposure	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgan terrestrial co ect level - E Effects of	cyl[phenoxy]meroxymethylene)] - PNEC iment ediment ent release isms ompartment DNEL / DMEL n consumers	thyl)oxirane an dioxirane	Chronic systemic	Effects on w	0,294 0,029 0,025 10 0,237	mg/kg mg/kg mg/l mg/l mg/kg	Chronic systemic
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the feath - Derived no-effe	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgan terrestrial co ect level - D Effects of Acute	cyl]phenoxy}me oxymethylene)] - PNEC iment ediment ent release isms ompartment DNEL / DMEL n consumers Acute	thyl)oxirane an dioxirane Chronic	d	Effects on w Acute	0,294 0,029 0,025 10 0,237 vorkers Acute	mg/kg mg/kg mg/l mg/l mg/kg	
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the following the state of the following the state of the state of exposure	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgan terrestrial co ect level - D Effects of Acute	cyl]phenoxy}me oxymethylene)] - PNEC iment ediment ent release isms ompartment DNEL / DMEL n consumers Acute	thyl)oxirane an dioxirane Chronic	Chronic systemic 6,25	Effects on w Acute	0,294 0,029 0,025 10 0,237 vorkers Acute	mg/kg mg/kg mg/l mg/l mg/kg	
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1 redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the file lealth - Derived no-effect	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgan terrestrial co ect level - D Effects of Acute	cyl]phenoxy}me oxymethylene)] - PNEC iment ediment ent release isms ompartment DNEL / DMEL n consumers Acute	thyl)oxirane an dioxirane Chronic	Chronic systemic 6,25 mg/kg bw/d	Effects on w Acute	0,294 0,029 0,025 10 0,237 vorkers Acute	mg/kg mg/kg mg/l mg/l mg/kg	systemic
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1 redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the file lealth - Derived no-effect	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgan terrestrial co ect level - D Effects of Acute	cyl]phenoxy}me oxymethylene)] - PNEC iment ediment ent release isms ompartment DNEL / DMEL n consumers Acute	thyl)oxirane an dioxirane Chronic	Chronic systemic 6,25 mg/kg bw/d 8,7	Effects on w Acute	0,294 0,029 0,025 10 0,237 vorkers Acute	mg/kg mg/kg mg/l mg/l mg/kg	systemic 29,39
2-{{2-[4-(oxiran-2-yIme 2,2'-[methylenebis(2,1- redicted no-effect cor Normal value in fresh Normal value for fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the file lealth - Derived no-effect Route of exposure	thoxy)benz -phenylene ncentration water h water sedi ine water se er, intermitte microorgan terrestrial co ect level - D Effects of Acute	cyl]phenoxy}me oxymethylene)] - PNEC iment ediment ent release isms ompartment DNEL / DMEL n consumers Acute	thyl)oxirane an dioxirane Chronic	Chronic systemic 6,25 mg/kg bw/d 8,7 mg/m3	Effects on w Acute	0,294 0,029 0,025 10 0,237 vorkers Acute	mg/kg mg/kg mg/l mg/l mg/kg	systemic 29,39 mg/m3

			Alkyl (C12-	14) glycidyl et	her			
Predicted no-effect co	ncentration	- PNEC						
Normal value in fresh				0,0072	mg/l			
Normal value in mari	Normal value in marine water					0,00072	mg/l	
Normal value for fres				66,77	mg/kg			
Normal value for mar				6,677	mg/kg			
Normal value of STP	microorgan	isms				10	mg/l	
Normal value for the	terrestrial co	mpartment				80,12	mg/kg	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects of	n consumers			Effects on v	vorkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation								13,8
								mg/m3
Skin								3,9
								mg/kg
								bw/d



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SECTION 8. Exposure controls/personal protection

			2-ME	THOXY-1-ME	THYLETHYL A	ACETATE			
hreshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
,,	,	mg/m3	ppm	mg/m3	ppm				
TLV	CZE	270	49,14	550	100,1	SKIN			
AGW	DEU	270	50	270	50				
MAK	DEU	270	50	270	50				
VLA	ESP	275	50	550	100	SKIN			
VLEP	FRA	275	50	550	100	SKIN			
TLV	GRC	275	50	550	100				
AK	HUN	275		550					
GVI/KGVI	HRV	275	50	550	100	SKIN			
VLEP	ITA	275	50	550	100	SKIN			
TGG	NLD	550							
VLE	PRT	275	50	550	100	SKIN			
NDS/NDSCh	POL	260		520		SKIN			
TLV	ROU	275	50	550	100	SKIN			
MV	SVN	275	50	550	100	SKIN			
WEL	GBR	274	50	548	100	SKIN			
OEL	EU	275	50	550	100	SKIN			
redicted no-effe	ct concentr	ation - PNE	С						
Normal value in	ı fresh water						0,635	mg/l	
Normal value ir							0,0635	mg/l	
Normal value for	or fresh wate	r sediment					3,29	mg/kg	
Normal value for	or marine wa	ter sedimen	t				0,329	mg/kg	
Normal value for	or water, inte	rmittent rele	ase				6,35	mg/l	
Normal value of STP microorganisms							100	mg/l	
Normal value for	or the terrest	rial compart	ment				0,29	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	ects on cons	umers			Effects on wo	orkers		
Route of expos			ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	stemic	local	systemic	local	systemic	local	systemic
Oral					1,67 mg/kg/d				
Inhalation					33				275
					mg/m3				mg/m3
Skin					54,8				153,5
					mg/kg/d				mg/kg/d

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; 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 hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are

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





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Information

SECTION 8. Exposure controls/personal protection

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.

not available

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Value **Properties** Appearance liquid Colour colourless characteristic Odour Melting point / freezing point not available Initial boiling point 200 not available Flammability Lower explosive limit not available Upper explosive limit not available 150 Flash point not available Auto-ignition temperature not available

Decomposition temperature

Kinematic viscosity not available Solubility

soluble in organic solvents Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1.13 kg/l

Relative vapour density not available Particle characteristics not applicable

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): 0,21 % - 2,40 g/litre VOC (volatile carbon) 0,18 % -

SECTION 10. Stability and reactivity

10.1. Reactivity

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

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.





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10.4. Conditions to avoid

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

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

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

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

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

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

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

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

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

2-METHOXY-1-METHYLETHYL ACETATE

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 (INCR, 2010).

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

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

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

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

Alkyl (C12-14) glycidyl ether

LD50 (Dermal): > 10000 mg/kg Rat

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Rat LD50 (Oral): 8530 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation





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SECTION 11. Toxicological information .../>>

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

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

Alkyl (C12-14) glycidyl ether

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

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

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

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

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

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

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

12.2. Persistence and degradability

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

Alkyl (C12-14) glycidyl ether

Solubility in water 0,483 mg/l

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

NOT rapidly degradable

12.3. Bioaccumulative potential





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SECTION 12. Ecological information .../>>

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

Alkyl (C12-14) glycidyl ether

BCF 263

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
Partition coefficient: n-octanol/water > 2,918
BCF 31

12.4. Mobility in soil

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Partition coefficient: soil/water 2,65

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0.1%.

12.6. 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

IMDG:

IATA:

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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

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

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

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

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

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





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SECTION 14. Transport information .../>>

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:

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: -Cargo:

Passengers: Special provision: Limited Quantities: 5 L

Maximum quantity: 450 L Maximum quantity: 450 L 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:

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

Product Point

3 - 40

Contained substance

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%.

@EPY 11.5.2 - SDS 1004.14





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Substances subject to authorisation (Annex XIV REACH)

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 not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Flam. Liq. 3 Flammable liquid, category 3
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2
Skin Sens. 1 Skin sensitization, category 1

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.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.

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
- 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



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SECTION 16. Other information .../>>

- 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:

01/02/03/07/09/11/12/14/15/16.