

Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 1 / 22 Replaced revision:6 (Dated 04/03/2020) ΕN

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

1.1. Product identifier							
Code:	477						
Product name	ESC	FONDO (A)					
1.2. Relevant identified uses of the subst	ance or mixture a	and uses advised against					
Intended use	PRIM	PRIMER COATING FOR STATIC DISSIPATIVE/CONDUCTIVE FLOORINGS.					
1.3. Details of the supplier of the safety of	lata sheet						
Name	NORI	D RESINE S.p.A.					
Full address	Via F	ornace Vecchia, 79					
District and Country	31058	3 Susegana	(TV)				
		Italia					
	Tel.	+39 0438-437511					
	Fax	+39 0438-435155					
e-mail address of the competent person							
responsible for the Safety Data Sheet	annal	breda@nordresine.com					
Product distribution by:	NORI	D RESINE S.p.A.					
1.4. Emergency telephone number							
For urgent inquiries refer to	+39 0	438 437511					

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 2015/830.

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:

н

Warning

Hazard statements:	
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 2 / 22 Replaced revision:6 (Dated 04/03/2020)

SECTION 2. Hazards identification ... / >>

EUH205 EUH208	Contains epoxy constituents. May produce an allergic reaction. Contains: Addition reaction products of conjugated sunflower-oil fatty acids and tall-oil fatty acid maleic anhydride O-CRESYL GLYCIDYL ETHER May produce an allergic reaction.							
Precautionary statement	Wear protective glov Avoid release to the Collect spillage. Avoid breathing dus If skin irritation or ra:	es / eye protection / face protectior environment. / fume / gas / mist / vapours / spra h occurs: Get medical advice / atte ts: Get medical advice / attention.	у.					
Contains:	[2-({2-[4-(oxiran-2-yl [2,2'-[methylenebis(2	?'-[methylenebis(4,1-phenyleneoxy nethoxy)benzyl]phenoxy}methyl)ox ,1-phenyleneoxymethylene)]dioxira ene)bis(4,1-phenyleneoxymethyle	kirane and ane					
VOC (Directive 2004/42/ Two - pack performance VOC given in g/litre of pr Limit value: - Catalysed with :	coatings.	50	15,34 0,00 SC FONDO (B)					
vPvB substances contain DIISOPROPYLNAPHTH PBT substances contain DIISOPROPYLNAPHTH SECTION 3. Comp	ALENE ed: ALENE	on on ingredients						
3.2. Mixtures								
Contains:								
Identification	x = Conc. %	Classification 1272/2008 (CLI)					
2,2'-[(1-methylethylider CAS 1675-54 EC 216-823 INDEX	-3 25≤x< 30	kymethylene)]bisoxirane Eye Irrit. 2 H319, Skin Irrit. 2 ∣	H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411					
Reaction mass of 2,2'-[thoxy)benzyl]phenox -5 $10 \le x \le 20$		and ylenebis(2,1-phenyleneoxymethylene)]dioxirane 1 H317, Aquatic Chronic 2 H411					
ALKYL (C12-14) GLYCI CAS 68609-9 EC 271-846 INDEX 603-103	7-2 9≤x< 10 -8	Skin Irrit. 2 H315, Skin Sens.	1 H317					
HYDROCARBONS, C9, CAS EC 918-668	1 ≤ x < 2,5	Aquatic Chronic 2 H411, EUH	1 H304, STOT SE 3 H335, STOT SE 3 H336, l066, ording to Annex VI to the CLP Regulation: P					
INDEX								



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 3 / 22 Replaced revision:6 (Dated 04/03/2020)

SECTION 3. Composition/information on ingredients/>>

Reg. no.	01-2119455851-35	
O-CRESYL	GLYCIDYL ETHER	
CAS	2210-79-9 0 ≤ x < 1	Muta. 2 H341, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, Classification note/notes according to Annex VI to the CLP Regulation: C
EC	218-645-3	ů ů
INDEX	603-056-00-X	
Reg. no.	01-2119966907-18	
DIISOPROP	YLNAPHTHALENE	
CAS	38640-62-9 0,25 ≤ x < 1	Asp. Tox. 1 H304, Aquatic Chronic 1 H410 M=1
EC	254-052-6	
INDEX		
Reg. no.	01-2119565150-48	
2-METHOX	-1-METHYLETHYL ACETATE	
CAS	<i>108-65-6</i> 0 ≤ x < 1	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-603-9	
INDEX	607-195-00-7	
Reg. no.	01-2119475791-29	
N-BUTYL A	CETATE	
CAS	<i>123-86-4</i> 0 ≤ x < 1	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC	204-658-1	
INDEX	607-025-00-1	
Reg. no.	01-2119485493-29	
	Y-4-METHYLPENTAN-2-ONE	
CAS	$123-42-2$ $0 \le x \le 1$	Repr. 2 H361d, Eye Irrit. 2 H319, STOT SE 3 H335
EC	204-626-7	
INDEX	603-016-00-1	
Reg. no.	01-2119473975-21	
		Inflower-oil fatty acids and tall-oil fatty acids with maleic anhydride
CAS	85711-46-2 0 ≤ x < 1	Skin Irrit. 2 H315, Skin Sens. 1 H317
EC	701-043-4	
INDEX	04 0440070070 40	
Reg. no.	01-2119976378-19	
CAS	IXTURE OF ISOMERS) 1330-20-7 0 ≤ x < 1	Flam. Lig. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,
CAS	1330-20-7 0 3 X X 1	STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note/notes according to Annex VI to the CLP Regulation: C
EC	215-535-7	
INDEX	601-022-00-9	
Reg. no.	01-2119488216-32	
ETHYLBEN		
CAS	<i>100-41-4</i> 0 ≤ x < 1	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373
EC	202-849-4	· · · · · · · · · · · · · · · · · · ·
INDEX	601-023-00-4	
Reg. no.	01-2119489370-35	
MALEIC AN		
CAS	<i>108-31-6</i> 0,001 ≤ x < 0,1	Acute Tox. 4 H302, STOT RE 1 H372, Skin Corr. 1B H314, Eye Dam. 1 H318, Resp. Sens. 1 H334, Skin Sens. 1A H317, EUH071
EC	203-571-6	
INDEX	607-096-00-9	
Reg. no.	01-2119472428-31	
QUARTZ		
CAS	14808-60-7 0 ≤ x < 1	STOT RE 1 H372
EC	238-878-4	
INDEX		
	HYL KETONE	
CAS	$78-93-3$ $0 \le x < 1$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	201-159-0	
INDEX	606-002-00-3	
Reg. no.	01-2119457290-43	
The full word	ling of hazard (H) phrases is given i	in section 16 of the sheet

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

EN



ΕN

SECTION 4. First aid measures ... / >>

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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.

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



SECTION 7. Handling and storage ... / >>

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. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
DEU	Deutschland	kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
HUN	Magyarország	A pénzügyminiszter 7/2018. (VIII. 29.) PM rendelete a munkahelyek kémiai biztonságáról szóló 25/2000. (IX. 30.) EüM–SZCSM egyű, TTes rendelet módosításáról.
HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/18)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
NED	Nederland	2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
	i ortugui	protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a
		agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZADZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12
		czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006
		privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției
		lucrătorilor împotriva riscurilor legate de prezența agenților chimici
SVN	Slovenija	Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o varovanju
		delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	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 2020
	RCP TLV	ACGIH TLVs and BEIs – Appendix H

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

Normal value in fresh	water					0,006	mg//l	
Normal value in mari	ne water					0,0006	mg/l	
Normal value for fres	h water sedi	iment		0,996	mg/kg			
Normal value for mar	ine water se	ediment			0,0996	mg/kg		
lealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects of	n consumers			Effects on w	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
				mg/kg/d				mg/kg



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

eaction mass of 2,2'-[2-({2-[4-(oxiran-2-ylme					-			
2,2'-[methylenebis(2,1				-				
Predicted no-effect cor								
Normal value in fresh						0,003	mg/l	
Normal value for fres		liment				0,294	mg/kg	
Normal value for mar						0,029	mg/kg	
Normal value for wate						0,025	mg/l	
Normal value of STP	,					10	mg/l	
Normal value for the	•					0,237	mg/kg	
Health - Derived no-eff						0,207	iiig/kg	
ieaitii - Deilveu lio-eil		on consumers			Effects on we	orkore		
Pouto of oxposuro	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
Route of exposure								
Oral	local	systemic	local	systemic	local	systemic	local	systemic
Oral				6,25				
				mg/kg bw/d				00.00
Inhalation				8,7				29,39
				mg/m3				mg/m3
Skin				62,5				104,15
				mg/kg bw/d				mg/kg
								bw/d
Predicted no-effect con Normal value in fresh	water					0,0072	mg/l	
Normal value in mari	ne water					0,00072	mg/l	
Normal value for fres	h water sed	liment				66,77	mg/kg	
Normal value for mar	ine water se	ediment				6,677	mg/kg	
Normal value of STP	microorgar	nisms				10	mg/l	
Normal value for the	terrestrial c	ompartment				80,12	mg/kg	
lealth - Derived no-eff	ect level - l	DNEL / DMEL						
		on consumers			Effects on we	orkers		
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
								511,4
		н	IYDROCARBO	NS, C9, AROM	ATICS			
hreshold Limit Value								
	untry T\	WA/8h	STEL/1	5min	Remarks /	Observations		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	g/m3 ppm	mg/m3	ppm	Komarks /			
RCP TLV		00 19	119/113	ppin				
Health - Derived no-eff	-							
ieann - Denveu no-en		on consumers			Effects on we	orkors		
					Ellects on W			
Pouto of overcours	Acuto	Aouto	Chronic	Chronic	Aouto	Acuto	Chronia	Chronic
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic 150

Skin

mg/kg/d

mg/m3

25



....

NORD RESINE S.p.A. 477 - ESC FONDO (A)

SECTION 8. Exposure controls/personal protection/>>

DIISOPROPYLNAPHTHALENE

Predicted no-effect con	ncentration	- PNEC								
Normal value in fresh	water					0,00023	mg/l			
						6				
Normal value in mari	ne water					0,00002	mg/l			
						36				
Normal value for fres	h water sed	iment				0,853	mg/kg			
Normal value for mar	ine water se	ediment				0,085	mg/kg			
Normal value of STP	microorgan	isms				0,15	mg/l			
Normal value for the	food chain (secondary poisor	ning)			25	mg/kg			
Normal value for the	terrestrial co	ompartment				0,171	mg/kg			
lealth - Derived no-eff	ect level - C	DNEL / DMEL								
	Effects o	n consumers			Effects on w	vorkers	rkers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic		
	local	systemic	local	systemic	local	systemic	local	systemic		
Oral			VND	2,1						
				mg/kg/d						
Inhalation			VND	7,4			VND	30		
				mg/m3				mg/m3		
Skin			VND	2,1			VND	4,3		
SKIII			=							

2-METHOXY-1-METHYLETHYL ACETATE

Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / C	bservations		
		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			
Predicted no-effe	ct concentra	ation - PNE	C						
Normal value in							0,635	mg/l	
Normal value in							0,0635	mg/l	
Normal value for	or fresh water	r sediment					3,29	mg/kg	
Normal value for	or marine wat	er sediment					0,329	mg/kg	
Normal value for	,		ase				6,35	mg/l	
Normal value of		0					100	mg/l	
Normal value for							0,29	mg/kg	
Health - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consi	umers			Effects on wo	rkers		
Route of expos	ure Acu	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	temic	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



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 8 / 22 Replaced revision:6 (Dated 04/03/2020)

SECTION 8. Exposure controls/personal protection / >>

			N-BUTYI	L ACETATE	
alue					
Country	TWA/8h		STEL/15n	nin	Remarks / Observations
	mg/m3	ppm	mg/m3	ppm	
CZE	950	196,65	1200	248,4	
DEU	300	62	600 (C)	124 (C)	
ESP	724	150	965	200	
FRA	710	150	940	200	
GRC	710	150	950	200	
HUN	241		723		
HRV	724	150	966	200	
NLD	150				
POL	240		720		
ROU	715	150	950	200	
SVN	300	62	600	124	
GBR	724	150	966	200	
EU	241	50	723	150	
		50		150	
	Country CZE DEU ESP FRA GRC HUN HRV NLD POL ROU SVN GBR	Country TWA/8h mg/m3 CZE 950 DEU 300 ESP 724 FRA 710 GRC 710 HUN 241 HRV 724 NLD 150 POL 240 ROU 715 SVN 300 GBR 724	Country TWA/8h mg/m3 ppm CZE 950 196,65 DEU 300 62 ESP 724 150 FRA 710 150 GRC 710 150 HUN 241 150 POL 240 240 ROU 715 150 SVN 300 62 GBR 724 150	Image: Non-State STEL/15m Country TWA/8h STEL/15m mg/m3 ppm mg/m3 CZE 950 196,65 1200 DEU 300 62 600 (C) ESP 724 150 965 FRA 710 150 940 GRC 710 150 950 HUN 241 723 HRV 724 150 966 NLD 150 720 ROU 715 150 950 SVN 300 62 600 GBR 724 150 966 EU 241 50 723	Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm CZE 950 196,65 1200 248,4 DEU 300 62 600 (C) 124 (C) ESP 724 150 965 200 FRA 710 150 940 200 GRC 710 150 950 200 HUN 241 723 - HRV 724 150 966 200 NLD 150 950 200 - POL 240 720 - - ROU 715 150 950 200 SVN 300 62 600 124 GBR 724 150 966 200 EU 241 50 723 150

4-HYDROXY-4-METHYLPENTAN-2-ONE

Threshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	CZE	200		300			
AGW	DEU	96	20	192	40	SKIN	
MAK	DEU	96	20	192	40	SKIN	
VLA	ESP	241	50				
VLEP	FRA	240	50				
TLV	GRC	240	50	360	75		
GVI/KGVI	HRV	241	50	362	75		
TGG	NLD	120				SKIN	
NDS/NDSCh	POL	240					
TLV	ROU	150	32	250	53		
MV	SVN	240	50			SKIN	
WEL	GBR	241	50	362	75		
TLV-ACGIH		238	50				

ΕN



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 9 / 22 Replaced revision:6 (Dated 04/03/2020)

SECTION 8. Exposure controls/personal protection/>>

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit V	alue								
Туре	Country	TWA/8h		STEL/15	imin	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	200	46	400	92	SKIN			
AGW	DEU	440	100	880	200	SKIN			
MAK	DEU	440	100	880	200	SKIN			
VLA	ESP	221	50	442	100	SKIN			
VLEP	FRA	221	50	442	100	SKIN			
TLV	GRC	435	100	650	150				
GVI/KGVI	HRV	221	50	442	100	SKIN			
VLEP	ITA	221	50	442	100	SKIN			
TGG	NLD	210		442		SKIN			
VLE	PRT	221	50	442	100	SKIN			
NDS/NDSCh	POL	100		200		SKIN			
TLV	ROU	221	50	442	100	SKIN			
MV	SVN	221	50	442	100	SKIN			
WEL	GBR	220	50	441	100	SKIN			
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				
Predicted no-effe		ation - PNE	C						
Normal value in							0,327	mg/l	
Normal value in	marine wate	er					0,327	mg/l	
Normal value for	or fresh water	r sediment					12,46	mg/kg	
Normal value for	or marine wat	ter sedimen	t				12,46	mg/kg	
Normal value for			ase				0,327	mg/l	
Normal value of							6,58	mg/l	
Normal value for							2,31	mg/kg	
lealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effects on consumers				Effects on wo	orkers			
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral									1,6 mg/kg/d
Inhalation					14,8 mg/m3	289 mg/m3	289 mg/m3		77 mg/m3
Skin					108 mg/kg/d				180 mg/kg/d

ETHYLBENZENE

Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	200	45,4	500	113,5	SKIN
AGW	DEU	88	20	176	40	SKIN
MAK	DEU	88	20	176	40	SKIN
VLA	ESP	441	100	884	200	SKIN
VLEP	FRA	88,4	20	442	100	SKIN
TLV	GRC	435	100	545	125	
AK	HUN	442		884		SKIN
GVI/KGVI	HRV	442	100	884	200	SKIN
VLEP	ITA	442	100	884	200	SKIN
TGG	NLD	215		430		SKIN
VLE	PRT	442	100	884	200	SKIN
NDS/NDSCh	POL	200		400		SKIN
TLV	ROU	442	100	884	200	SKIN
MV	SVN	442	100	884	200	SKIN
WEL	GBR	441	100	552	125	SKIN
OEL	EU	442	100	884	200	SKIN
TLV-ACGIH		87	20			



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 10 / 22 Replaced revision:6 (Dated 04/03/2020)

SECTION 8. Exposure controls/personal protection/>>

				MALEIC A	NHYDRIDE	
Threshold Limit \	/alue					
Туре	Country	TWA/8h		STEL/15n	nin	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	1	0,245	2	0,49	
AGW	DEU	0,081	0,02	0,081 (C)	0,02 (C)	
MAK	DEU	0,081	0,02	0,081 (C)	0,02 (C)	C = 0,20 mg/m3
VLA	ESP	0,4	0,1			
VLEP	FRA			1		
TLV	GRC	1				
AK	HUN	0,08		0,08		
GVI/KGVI	HRV	0,41	0,1	0,8	0,2	INHAL
GVI/KGVI	HRV	0,41	0,1	0,8	0,2	SKIN
NDS/NDSCh	POL	0,5		1		SKIN
TLV	ROU	1	0,25	3	0,75	
MV	SVN	0,41	0,1	0,41	0,1	
WEL	GBR	1		3		
TLV-ACGIH		0,01	0,0025			

				Q	UARTZ			
Threshold Limit \	Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP		0,05			RESP		
VLEP	FRA	0,1				RESP		
GVI/KGVI	HRV	0,1						
VLEP	ITA	0,1				RESP		
TGG	NLD	0,075				RESP		
NDS/NDSCh	POL	0,1				RESP		
MV	SVN	0,15				RESP		
OEL	EU	0,1				RESP		
TLV-ACGIH		0,025						



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 11 / 22 Replaced revision:6 (Dated 04/03/2020)

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

				METHYL E	THYL KETONE	E			
Threshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / C	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	600	200,4	900	300,6				
AGW	DEU	600	200	600	200	SKIN			
MAK	DEU	600	200	600	200	SKIN			
VLA	ESP	600	200	900	300				
VLEP	FRA	600	200	900	300	SKIN			
TLV	GRC	600	200	900	300				
AK	HUN	600		900		SKIN			
GVI/KGVI	HRV	600	200	900	300				
VLEP	ITA	600	200	900	300				
TGG	NLD	590		500		SKIN			
VLE	PRT	600	200	900	300				
NDS/NDSCh	POL	450		900		SKIN			
TLV	ROU	600	200	900	300				
MV	SVN	600	200	900	300	SKIN			
WEL	GBR	600	200	899	300	SKIN			
OEL	EU	600	200	900	300				
TLV-ACGIH		590	200	885	300				
Predicted no-effe			C						
Normal value ir							55,8	mg/l	
Normal value ir							55,8	mg/l	
Normal value for							284,74	mg/kg	
Normal value o							709	mg/l	
Normal value for				g)			100	mg/kg	
Normal value for							22,5	mg/kg	
Health - Derived I									
		ects on consi				Effects on wo			
Route of expos				Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	stemic	local	systemic	local	systemic	local	systemic
Oral					31				
					mg/kg bw/d				
Inhalation					106				600
					mg/m3				mg/m3
Skin					412				1161
					mg/kg bw/d				mg/kg
									bw/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.

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 (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

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

SKIN PROTECTION

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

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



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 12 / 22 Replaced revision:6 (Dated 04/03/2020)

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

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 available	
рН		Not available	
Melting point / freezing point		Not available	
Initial boiling point	>	200 °C	
Boiling range		Not available	
Flash point	>	150 °C	
Evaporation Rate		Not available	
Flammability of solids and gases		Not available	
Lower inflammability limit		Not available	
Upper inflammability limit		Not available	
Lower explosive limit		Not available	
Upper explosive limit		Not available	
Vapour pressure		Not available	
Vapour density		Not available	
Relative density		1,39	
Solubility		Not available	
Partition coefficient: n-octanol/water		Not available	
Auto-ignition temperature		Not available	
Decomposition temperature		Not available	
Viscosity		Not available	
Explosive properties		Not available	
Oxidising properties		Not available	
9.2. Other information			
VOC (Directive 2004/42/EC) :		2,88 % - 40,09	g/litre
VOC (volatile carbon) :		1,78 % - 24,73	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.

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.

N-BUTYL ACETATE Decomposes on contact with: water. 4-HYDROXY-4-METHYLPENTAN-2-ONE Decomposes at temperatures above 90°C/194°F. METHYL ETHYL KETONE

Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. Decomposes under the effect of heat.

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.



NORD RESINE S.p.A.

477 - ESC FONDO (A)

FN

SECTION 10. Stability and reactivity ... / >>

2-METHOXY-1-METHYLETHYL ACETATE

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

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

4-HYDROXY-4-METHYLPENTAN-2-ONE

Risk of explosion on contact with: air,sources of heat.May react dangerously with: alkaline metals,amines,oxidising agents,acids. XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlorates.May form explosive mixtures with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with: air.

METHYL ETHYL KETONE

May form peroxides with: air,light,strong oxidising agents.Risk of explosion on contact with: hydrogen peroxide,nitric acid,sulphuric acid.May react dangerously with: oxidising agents,trichloromethane,alkalis.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

N-BUTYL ACETATE

Avoid exposure to: moisture,sources of heat,naked flames. 4-HYDROXY-4-METHYLPENTAN-2-ONE Avoid exposure to: light,sources of heat,naked flames.

METHYL ETHYL KETONE

Avoid exposure to: sources of heat.

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

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

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

METHYL ETHYL KETONE

Incompatible with: strong oxidants, inorganic acids, ammonia, copper, chloroform.

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.

ETHYLBENZENE

May develop: methane,styrene,hydrogen,ethane.

SECTION 11. Toxicological information

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

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

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

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.

N-BUTYL ACETATE WORKERS: inhalation; contact with the skin.

4-HYDROXY-4-METHYLPENTAN-2-ONE WORKERS: inhalation; contact with the skin.

XYLENE (MIXTURE OF ISOMERS) WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of envoronmental air.



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 14 / 22 Replaced revision:6 (Dated 04/03/2020)

SECTION 11. Toxicological information .../>>

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

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

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).

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

4-HYDROXY-4-METHYLPENTAN-2-ONE

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

Interactive effects

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

2-METHOXY-1-METHYLETHYL ACETATE LD50 (Oral) LD50 (Dermal)

ETHYLBENZENE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

METHYL ETHYL KETONE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

8530 mg/kg Rat > 5000 mg/kg Rat

3500 mg/kg Rat 15354 mg/kg Rabbit 17,2 mg/l/4h Rat

2737 mg/kg Rat 6480 mg/kg Rabbit 23,5 mg/l/8h Rat



SECTION 11. Toxicological information/>>

	N-BUTYL ACETATE	
	LD50 (Oral)	> 6400 mg/kg Rat
	LD50 (Dermal)	> 5000 mg/kg Rabbit
	LC50 (Inhalation)	21,1 mg/l/4h Rat
		_ ,,
	MALEIC ANHYDRIDE	
	LD50 (Oral)	400 mg/kg Rat
	LD50 (Dermal)	610 mg/kg Rat
	ALKYL (C12-14) GLYCIDYL ETHER	
	LD50 (Dermal)	> 10000 mg/kg Rat
	DIISOPROPYLNAPHTHALENE	
	LD50 (Oral)	> 4000 mg/kg Rat
	LD50 (Dermal)	> 4000 mg/kg Rat
	HYDROCARBONS, C9, AROMATICS	
	LD50 (Oral)	3492 mg/kg Rat
	LD50 (Dermal)	3160 mg/kg Rabbit
	LC50 (Inhalation)	6193 mg/l/4h Rat
		0100 mg/// m tat
	4-HYDROXY-4-METHYLPENTAN-2-ONE	
	LD50 (Oral)	4000 mg/kg Rat
	XYLENE (MIXTURE OF ISOMERS)	
	LD50 (Oral)	3523 mg/kg Rat
	LD50 (Dermal)	4350 mg/kg Rabbit
	LC50 (Inhalation)	26 mg/l/4h Rat
	Reaction mass of 2,2'-[methylenebis(4,1-phenylene	ovvmethylene)]diovirane and
		/l)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
	LD50 (Oral)	> 5000 mg/kg Rat
	LD50 (Dermal)	> 2000 mg/kg Rat
	Addition reaction products of conjugated sunflower-	oil fatty acids and tall-oil fatty acids with maleic anhydride
	LD50 (Oral)	> 2000 mg/kg Rat (female)
SKING	CORROSION / IRRITATION	
Cause	s skin irritation	
SEDIO		
SERIC	US EYE DAMAGE / IRRITATION	
Cause	s serious eye irritation	
RESPI	RATORY OR SKIN SENSITISATION	
Sensiti	sing for the skin	
	oduce an allergic reaction.	
Contai	5	
Additio	n reaction products of conjugated sunflower-oil fatty a	acids and tall-oil fatty acids with maleic anhydride
	SYL GLYCIDYL ETHER	· · ·

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 16 / 22 Replaced revision:6 (Dated 04/03/2020) ΕN

SECTION 11. Toxicological information / >>

on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

ALKYL (C12-14) GLYCIDYL ETHER LC50 - for Fish	> 5000 mg/l/96h Rainbow trout
HYDROCARBONS, C9, AROMATICS LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	9,2 mg/l/96h Onchorincus mykiss 3,2 mg/l/48h Daphnia magna 2,9 mg/l/72h Pseudokirchneriella subcapitata
4-HYDROXY-4-METHYLPENTAN-2-ONE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	> 100 mg/l/96h Oryzia latipes > 1000 mg/l/48h Daphnia magna > 1000 mg/l/72h Pseudokirchneriella subcapitata
Reaction mass of 2,2'-[methylenebis(4,1-phenylened [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methy LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	oxymethylene)]dioxirane and /l)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane 2,54 mg/l/96h 2,55 mg/l/48h Daphnia Magna 1,8 mg/l/72h
Addition reaction products of conjugated sunflower-or EC50 - for Crustacea	oil fatty acids and tall-oil fatty acids with maleic anhydride > 100 mg/l/48h Daphnia magna
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymeth LC50 - for Fish	ylene)]bisoxirane 1,5 mg/l/96h Fish
12.2. Persistence and degradability	
2-METHOXY-1-METHYLETHYL ACETATE Solubility in water Rapidly degradable	> 10000 mg/l
ETHYLBENZENE Solubility in water Rapidly degradable	1000 - 10000 mg/l
METHYL ETHYL KETONE Solubility in water Rapidly degradable	> 10000 mg/l



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 17 / 22 Replaced revision:6 (Dated 04/03/2020)

SECTION 12. Ecological information ... / >>

N-BUTYL ACETATE Solubility in water	1000 - 10000 mg/l
MALEIC ANHYDRIDE Solubility in water Entirely degradable	> 10000 mg/l
ALKYL (C12-14) GLYCIDYL ETHER Solubility in water	0,483 mg/l
HYDROCARBONS, C9, AROMATICS Rapidly degradable	
4-HYDROXY-4-METHYLPENTAN-2-ONE Solubility in water Rapidly degradable	1000 - 10000 mg/l
XYLENE (MIXTURE OF ISOMERS) Solubility in water Degradability: information not available	100 - 1000 mg/l
Addition reaction products of conjugated sunflower NOT rapidly degradable	-oil fatty acids and tall-oil fatty acids with maleic anhydride
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymet Solubility in water NOT rapidly degradable	hylene)]bisoxirane 0,1 - 100 mg/l
12.3. Bioaccumulative potential	
2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water	1,2
ETHYLBENZENE Partition coefficient: n-octanol/water	3,6
METHYL ETHYL KETONE Partition coefficient: n-octanol/water	0,3
N-BUTYL ACETATE Partition coefficient: n-octanol/water BCF	2,3 15,3
MALEIC ANHYDRIDE Partition coefficient: n-octanol/water	-2,78
ALKYL (C12-14) GLYCIDYL ETHER BCF	263
DIISOPROPYLNAPHTHALENE BCF	> 500
4-HYDROXY-4-METHYLPENTAN-2-ONE Partition coefficient: n-octanol/water	-0,09
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n-octanol/water BCF	3,12 25,9
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymet Partition coefficient: n-octanol/water BCF	hylene)]bisoxirane > 2,918 31
12.4. Mobility in soil	



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 18 / 22 Replaced revision:6 (Dated 04/03/2020)

SECTION 12. Ecological information ... / >>

N-BUTYL ACETATE Partition coefficient: soil/water	< 3
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water	2,73

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

12.5. Results of PBT and vPvB assessment

vPvB substances contained: DIISOPROPYLNAPHTHALENE

PBT substances contained: DIISOPROPYLNAPHTHALENE

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 3082					
ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to ADR provisions.				
IMDG:	In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.				
IATA:	In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.				

14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(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)
IMDG:	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)
IATA:	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)



SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

ADR / RID:	Class: 9	Label: 9
IMDG:	Class: 9	Label: 9
ΙΑΤΑ:	Class: 9	Label: 9



No state of the st

14.4. Packing group

ADR / RID, IMDG, IATA: III

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 Special Provision: -	Limited Quantities: 5 L	Tunnel restriction code: (-)
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Pass.:	Maximum quantity: 450 L	Packaging instructions: 964
	Special Instructions:	A97, A158, A197	

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

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC:

E2

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

Product Point

3 - 40

Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

Substances subject to the Rotterdam Convention: None



SECTION 15. Regulatory information ... / >>

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

VOC (Directive 2004/42/EC) : Two - pack performance coatings.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances N-BUTYL ACETATE METHYL ETHYL KETONE

SECTION 16. Other information

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

Flam. Liq. 2 Flam. Liq. 3 Muta. 2 Repr. 2 Acute Tox. 4 STOT RE 1 Asp. Tox. 1 STOT RE 2 Skin Corr. 1B Eye Irrit. 2 Stor SE 3 Resp. Sens. 1 Skin Sens. 1 Skin Sens. 1 Skin Sens. 1A Aquatic Chronic 1 Aquatic Chronic 2 H225 H226 H341 H361d H302 H312 H332 H372 H304 H373	Flammable liquid, category 2 Flammable liquid, category 3 Germ cell mutagenicity, category 2 Acute toxicity, category 4 Specific target organ toxicity - repeated exposure, category 1 Aspiration hazard, category 1 Specific target organ toxicity - repeated exposure, category 2 Skin corrosion, category 1B Eye irritation, category 2 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Respiratory sensitization, category 1 Skin sensitization, category 1 A Hazardous to the aquatic environment, chronic toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 2 Highly flammable liquid and vapour. Flammable liquid and vapour. Suspected of causing genetic defects. Suspected of damaging the unborn child. Harmful if swallowed. Harmful if swallowed. Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335 H334	May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
EUH205	Contains epoxy constituents. May produce an allergic reaction.
20200	containe sporty sonotidente. May produce an allergie redellon.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number

- CE50: Effective concentration (required to induce a 50% effect)

- CE NUMBER: Identifier in ESIS (European archive of existing substances)

- CLP: EC Regulation 1272/2008

- DNEL: Derived No Effect Level

- EmS: Emergency Schedule

- GHS: Globally Harmonized System of classification and labeling of chemicals



SECTION 16. Other information ... / >>

- IATA DGR: International Air Transport Association Dangerous Goods Regulation- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP - LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
- **GENERAL BIBLIOGRAPHY**
- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 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) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:



Revision nr.7 Dated 07/05/2021 Printed on 07/05/2021 Page n. 22 / 22 Replaced revision:6 (Dated 04/03/2020)

SECTION 16. Other information ... / >>

The following sections were modified: 02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.