

Revision nr.3 Dated 14/01/2021 Printed on 04/02/2021 Page n. 1 / 20 Replaced revision:2 (Dated 16/12/2016)

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

		e company/undertaking
1.1. Product identifier		
Code: Product name	638 STRATOFLEX INV (A)	
1.2. Relevant identified uses of the substanc	ce or mixture and uses advised against	
Intended use	MULTILAYERED SELF-LEVELLI	ING COVERING FOR INDUSTRIAL FLOORS.
1.3. Details of the supplier of the safety data	sheet	
Name Full address District and Country	NORD RESINE S.p.A. Via Fornace Vecchia, 79 31058 Susegana Italia Tel. +39 0438-437511 Fax +39 0438-435155	(TV)
e-mail address of the competent person responsible for the Safety Data Sheet	annabreda@nordresine.com	
Product distribution by:	NORD RESINE S.p.A.	
1.4. Emergency telephone number		
For urgent inquiries refer to	+39 0438 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 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.
toxicity, category 3		

2.2. Label elements

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

Hazard pictograms:



Signal words:

Warning

Hazard statements:H319Causes serious eye irritation.H315Causes skin irritation.H317May cause an allergic skin reaction.H412Harmful to aquatic life with long lasting effects.



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SECTION 2. Hazards identification ... / >>

EUH205 EUH208	Hydro	EIC ANHYDRIDE ocarbons, terpene process RESYL GLYCIDYL ETHER	sing by-products			
Precautionary statements: P280 P261 P333+P313 P337+P313 P264 P362+P364	Wear protective gloves / e Avoid breathing dust / fum If skin irritation or rash occ If eye irritation persists: Ge Wash thoroughly with wate Take off contaminated close	e / gas / mist / vapours / s curs: Get medical advice / et medical advice / attentic er and soap after handling	pray. attention. on.			
Contains:	TRIMETHYLOLPROPANE TRIACRYLATE ALKYL (C12-14) GLYCIDYL ETHER Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane a [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/E Two - pack performance c VOC given in g/litre of prod Limit value: - Catalysed with :	oatings. duct in a ready-to-use condi	tion : 14,29 %	109,32 500,00 STRATOFLEX INV (B)			

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains: Identification Classification 1272/2008 (CLP) x = Conc. % 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 CAS 1675-54-3 9≤x< 20 EC 216-823-5 INDEX 01-2119456619-26 Reg. no. 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 CAS 9003-36-5 9≤x< 10 Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411 EC 701-263-0 INDEX 01-2119454392-40 Reg. no. ALKYL (C12-14) GLYCIDYL ETHER 68609-97-2 1 ≤ x < 5 Skin Irrit. 2 H315, Skin Sens. 1 H317 CAS EC 271-846-8 INDEX 603-103-00-4 01-2119485289-22 Reg. no. TRIMETHYLOLPROPANE TRIACRYLATE *15625-89-5* 1 ≤ x < 5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, CAS Classification note/notes according to Annex VI to the CLP Regulation: D EC 239-701-3 607-111-00-9 INDEX Reg. no. 01-2119489896-11



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SECTION 3. Composition/information on ingredients/>>

CAS	108-65-6	$0 \le x \le 1$	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-603-9		
INDEX	607-195-00-7		
Reg. no.	01-21194757	91-29	
Reaction mass	s of ethylbenz		/lene and p-xylene
CAS		0≤x< 1	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, 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	905-562-9		
INDEX			
Reg. no.	01-21195552		
O-CRESYL GL			
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		
INDEX	603-056-00->		
Reg. no.	01-21199669		
Hydrocarbons,			
CAS	68956-56-9	U≤x< 1	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 2 H411
EC INDEX	273-309-3		
Reg. no. ETHYL ACETA	01-21199806 TE	06-28	
CAS	141-78-6	0 ≤ x < 1	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	205-500-4		
INDEX	607-022-00-5	5	
Reg. no.	01-21194751	03-46	
METHYL ETHY	L KETONE		
CAS	78-93-3	0 ≤ x < 1	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	201-159-0		
INDEX	606-002-00-3	3	
Reg. no.	01-21194572	90-43	
N-BUTYL ACE	TATE		
CAS	123-86-4	0 ≤ x < 1	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC	204-658-1		
INDEX	607-025-00-1	1	
Reg. no.	01-21194854		
XYLENE (MIXT	URE OF ISO	MERS)	
CAS	1330-20-7	0≤x< 1	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, 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.	01-21194882	216-32	
ETHYLBENZEI	NE		
CAS	100-41-4	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	1	
Reg. no.	01-21194893	70-35	
QUARTZ			
CAS	14808-60-7	0 ≤ x < 1	STOT RE 2 H373
EC	238-878-4		
INDEX			
	DRIDE		
	108-31-6	$0 \le x \le 0,00^{2}$	
			Resp. Sens. 1 H334, Skin Sens. 1A H317, EUH071
MALEIC ANHY	203-571-6		Resp. Sens. 1 H334, Skin Sens. 1A H317, EUH071
MALEIC ANHY CAS)	Resp. Sens. 1 H334, Skin Sens. 1A H317, EUH071

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



SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly 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

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

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 246/2018 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	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.
	L las se to la s	
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,
		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
	-	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 cerintelor minime de securitate si sănătate în muncă pentru asigurarea protectiei
		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)
	01110	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



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SECTION 8. Exposure controls/personal protection/>>

		2'-[(1-methylethy	/lidene)bis(4,1	-phenyleneoxyr	methylene)]b	isoxirane		
edicted no-effect con		- PNEC						
Normal value in fresh						0,006	mg//l	
Normal value in marin						0,0006	mg/l	
Normal value for fresh						0,996	mg/kg	
Normal value for mari						0,0996	mg/kg	
ealth - Derived no-effe								
		consumers	.	<u>.</u>	Effects on w		<u>.</u>	<u>.</u>
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral			VND	0,75				
la la da Cart				mg/kg/d				40.05
Inhalation							VND	12,25
Oltin				0.574				mg/m3
Skin			VND	3,571			VND	8,33
				mg/kg/d				mg/kg
					-			
eaction mass of 2,2'-[I					d			
2-({2-[4-(oxiran-2-ylmet				d				
2,2'-[methylenebis(2,1-			dioxirane					
redicted no-effect con		- PNEC						
Normal value in fresh						0,003	mg/l	
Normal value for fresh						0,294	mg/kg	
Normal value for mari						0,029	mg/kg	
Normal value for wate						0,025	mg/l	
Normal value of STP						10	mg/l	
Normal value for the te		•				0,237	mg/kg	
ealth - Derived no-effe								
		n consumers			Effects on w			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				6,25				
				mg/kg bw/d				
Inhalation				8,7				29,39
				mg/m3				mg/m3
Skin				62,5				104,15
				mg/kg bw/d				mg/kg
								bw/d
redicted no-effect con	o o mán cál a ca		ALKYL (C12-14	4) GLYCIDYL E	THER			
		- PNEG				0.0072	ma/l	
Normal value in fresh							mg/l	
Normal value in marin		mant				0,00072	mg/l	
Normal value for fresh						66,77	mg/kg	
						6,677	mg/kg	
Normal value for mari						10	mg/l	
Normal value of STP	orroctrial co					80,12	mg/kg	
Normal value of STP I Normal value for the te								
Normal value of STP I Normal value for the te	ct level - D				Effects on w	/orkers		
Normal value of STP i Normal value for the te ealth - Derived no-effe	ect level - D Effects or	n consumers						<u> </u>
Normal value of STP in Normal value for the terms	ect level - D Effects on Acute	i consumers Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
Normal value of STP i Normal value for the te ealth - Derived no-effe	ect level - D Effects or	n consumers	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	systemic
Normal value of STP i Normal value for the te ealth - Derived no-effe	ect level - D Effects on Acute	i consumers Acute						
Normal value of STP i Normal value for the tr ealth - Derived no-effe Route of exposure	ect level - D Effects on Acute	i consumers Acute						systemic
Normal value of STP i Normal value for the tr ealth - Derived no-effe Route of exposure	ect level - D Effects on Acute	i consumers Acute						systemic 13,8
Normal value of STP i Normal value for the tr lealth - Derived no-effe Route of exposure Inhalation	ect level - D Effects on Acute	i consumers Acute						systemic 13,8 mg/m3



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

TRIMETHYLOLPROPANE TRIACRYLATE

Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	mg/l							
Normal value in marir	ne water					0,00014	mg/l	
						7		
Normal value for fresl	0,0062	mg/kg/d						
Normal value for mar	ine water se	diment				0,00062	mg/kg/d	
Normal value of STP	microorgani	sms				6,25	mg/l	
Normal value for the	food chain (s	secondary poiso	ning)			5,6	mg/kg	
Normal value for the	terrestrial co	mpartment				0,0043	mg/kg/d	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on	workers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation				4,9				16,2
				mg/m3				mg/m3

2-METHOXY-1-METHYLETHYL ACETATE Threshold Limit Value Country TWA/8h STEL/15min Remarks / Observations Туре 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 ESP 50 100 275 550 SKIN VI A VLEP FRA 275 50 550 100 SKIN TLV GRC 275 50 550 100 AK HUN 275 550 GVI/KGVI 50 SKIN HRV 275 550 100 VLEP ITA 275 50 550 100 SKIN TGG NLD 550 VLE PRT 275 50 550 100 SKIN NDS/NDSCh POL SKIN 260 520 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-effect concentration - PNEC 0,635 Normal value in fresh water mg/l Normal value in marine water 0,0635 mg/l

	0,0000	ing/i
Normal value for fresh water sediment	3,29	mg/kg
Normal value for marine water sediment	0,329	mg/kg
Normal value for water, intermittent release	6,35	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,29	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects or	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				1,67				
				mg/kg/d				
Inhalation				33				275
				mg/m3				mg/m3
Skin				54,8				153,5
				mg/kg/d				mg/kg/d



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reshold Limit	Value								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
VLEP	ITA	221	50	442	100	SKIN			
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				
redicted no-effe	ect concentration	ation - PNEC	3						
Normal value i	n fresh water						0,25	mg/l	
Normal value i	n marine wate	er		0,25	mg/l				
Normal value for marine water sediment								mg/kg	
Normal value f	or the terrest	rial compartn	nent				2,41	mg/kg	

Hydrocarbons, terpene processing by-products

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,0021	mg/l
Normal value in marine water	0,00021	mg/l
Normal value for water, intermittent release	0,021	mg/l

				ETHYL	ACETATE	
Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
	-	mg/m3	ppm	mg/m3	ppm	
TLV	CZE	700	191,1	900	245,7	
AGW	DEU	730	200	1460	400	
MAK	DEU	750	200	1500	400	
VLA	ESP	734	200	1468	400	
VLEP	FRA	734	200	1468	400	
TLV	GRC	734	200	1468	400	
AK	HUN	734		1468		
GVI/KGVI	HRV	734	200	1468	400	
TGG	NLD	734		1468		
VLE	PRT	734	200	1468	400	
NDS/NDSCh	POL	734		1468		
TLV	ROU	400	111	500	139	
MV	SVN	734	200	1468	400	
WEL	GBR	734	200	1468	400	
OEL	EU	734	200	1468	400	
TLV-ACGIH		1441	400			
Predicted no-effe		ation - PNEC	;			
Normal value in	n fresh water					0,26 mg/l
Normal value in	n marine wate	er	0,026 mg/l			
Normal value for	or fresh water	1,25 mg/kg				
Normal value for	or marine wat	er sediment				0,125 mg/kg
Normal value for	or water, inter	mittent relea	ise			1,65 mg/l
Normal value o						650 mg/l
Normal value for	or the food ch	ain (seconda	ary poisoning)		200 mg/kg
Normal value for	or the terrestr	ial compartn	nent			0,24 mg/kg



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				METHYL E	THYL KETONI	E			
Threshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	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	ct concentr	ation - PNE	С						
Normal value ir							55,8	mg/l	
Normal value ir	n marine wat	er					55,8	mg/l	
Normal value for	or fresh wate	r sediment					284,74	mg/kg	
Normal value o							709	mg/l	
Normal value for				ıg)			100	mg/kg	
Normal value for	or the terrest	rial compart	ment				22,5	mg/kg	
lealth - Derived I	no-effect lev	el - DNEL /	DMEL						
	Effe	ects on cons	umers			Effects on w	orkers		
Route of expos	ure Acu	ite Ac	ute	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

N-BUTYL ACETATE

Threshold Limit \	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	950	196,65	1200	248,4	
AGW	DEU	300	62	600 (C)	124 (C)	
VLA	ESP	724	150	965	200	
VLEP	FRA	710	150	940	200	
TLV	GRC	710	150	950	200	
AK	HUN	241		723		
GVI/KGVI	HRV	724	150	966	200	
TGG	NLD	150				
NDS/NDSCh	POL	240		720		
TLV	ROU	715	150	950	200	
MV	SVN	300	62	600	124	
WEL	GBR	724	150	966	200	
OEL	EU	241	50	723	150	
TLV-ACGIH			50		150	



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SECTION 8. Exposure controls/personal protection/>>

XYLENE (MIXTURE OF ISOMERS)

			Х	YLENE (MIXT	URE OF ISON	MERS)			
Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	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	ct concentra	ation - PNE	C						
Normal value ir	n fresh water						0,327	mg/l	
Normal value ir	n marine wate	er					0,327	mg/l	
Normal value for	or fresh wate	r sediment					12,46	mg/kg	
Normal value for	or marine wa	ter sediment	1				12,46	mg/kg	
Normal value for	or water. inte	mittent rele	ase				0,327	mg/l	
Normal value o	,						6,58	mg/l	
Normal value for			nent				2,31	mg/kg	
Health - Derived r							,-	5. 5	
		cts on consi				Effects on w	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l svs	stemic	local	systemic	local	systemic	local	systemic
Oral		·· - / -			-,		-,		1,6 mg/kg/d
Inhalation					14,8	289	289		77
					mg/m3	mg/m3	mg/m3		mg/m3
Skin					108				180
					mg/kg/d				mg/kg/d

ETHYLBENZENE

Threshold Limit Value						
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			

ΕN



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

				Q	UARTZ		
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15min		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					

MALEIC ANHYDRIDE

hreshold Limit V						
Туре	Country	TWA/8h		STEL/15m	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			

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 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	In	formation
Appearance		liquid		
Colour		TYPICAL		
Odour		characteristic		
Odour threshold		Not available		
рН		Not available		
Melting point / freezing point		Not available		
Initial boiling point		Not available		
Boiling range		Not available		
Flash point	>	100 °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		2 kg/l		
Solubility		insoluble in water		
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		
2. Other information				
VOC (Directive 2004/42/EC) :		1,82 % - 36,47	g/litre	
VOC (volatile carbon) :		0,96 % - 19,19	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.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

METHYL ETHYL KETONE

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

N-BUTYL ACETATE Decomposes on contact with: water.

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.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

METHYL ETHYL KETONE



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SECTION 10. Stability and reactivity/>>

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.

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

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.

10.4. Conditions to avoid

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

ETHYL ACETATE

Avoid exposure to: light,sources of heat,naked flames. METHYL ETHYL KETONE

Avoid exposure to: sources of heat.

N-BUTYL ACETATE

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

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

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

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials. METHYL ETHYL KETONE

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

N-BUTYL ACETATE

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

10.6. Hazardous decomposition products

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.

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

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



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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.

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 (IspesI). 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:	Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)
2-METHOXY-1-METHYLETHYL ACETATE LD50 (Oral) LD50 (Dermal)	8530 mg/kg Rat > 5000 mg/kg Rat
ETHYLBENZENE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	3500 mg/kg Rat 15354 mg/kg Rabbit 17,2 mg/l/4h Rat
METHYL ETHYL KETONE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	2737 mg/kg Rat 6480 mg/kg Rabbit 23,5 mg/l/8h Rat
N-BUTYL ACETATE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	> 6400 mg/kg Rat > 5000 mg/kg Rabbit 21,1 mg/l/4h Rat
MALEIC ANHYDRIDE LD50 (Oral) LD50 (Dermal)	400 mg/kg Rat 610 mg/kg Rat
ALKYL (C12-14) GLYCIDYL ETHER LD50 (Dermal)	> 10000 mg/kg Rat



SECTION 11. Toxicological information ... / >>

Reaction mass of ethylbenzene and m-xylene and p	p-xylene
LD50 (Oral)	3523 mg/l Rat
LD50 (Dermal)	12126 mg/kg Rabbit
LC50 (Inhalation)	27,124 mg/l/4h Rat
XYLENE (MIXTURE OF ISOMERS)	
LD50 (Oral)	3523 mg/kg Rat
LD50 (Dermal)	4350 mg/kg Rabbit 26 mg/l/4h Rat
LC50 (Inhalation)	20 mg///40 Rat
Reaction mass of 2,2'-[methylenebis(4,1-phenylene	
	yl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
LD50 (Oral) LD50 (Dermal)	> 5000 mg/kg Rat > 2000 mg/kg Rat
Hydrocarbons, terpene processing by-products	
LD50 (Oral)	> 2000 mg/kg Rat
LD50 (Dermal)	> 2000 mg/kg Rat
SKIN CORROSION / IRRITATION	
Causes skin irritation	
SERIOUS EYE DAMAGE / IRRITATION	
Causes serious eye irritation	
RESPIRATORY OR SKIN SENSITISATION	
Sensitising for the skin	
May produce an allergic reaction.	
Contains:	
MALEIC ANHYDRIDE	
Hydrocarbons, terpene processing by-products O-CRESYL GLYCIDYL ETHER	
GERM CELL MUTAGENICITY	
Does not meet the classification criteria for this hazard class	s
CARCINOGENICITY	
Does not meet the classification criteria for this hazard class	s
XYLENE (MIXTURE OF ISOMERS)	
Classified in Group 3 (not classifiable as a human c	carcinogen) by the International Agency for Research on Cancer (IARC).
- · · · · · · · · · · · · · · · · · · ·	firms 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, 200

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 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

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SECTION 12. Ecological information

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

12.1. Toxicity

ALKYL (C12-14) GLYCIDYL ETHER LC50 - for Fish

> 5000 mg/l/96h Rainbow trout

Reaction mass of ethylbenzene and m-xylene and p-xylene LC50 - for Fish 2,6 mg/l/96h p-xilene

 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 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
ETHYL ACETATE Solubility in water Rapidly degradable	> 10000 mg/l
N-BUTYL ACETATE Solubility in water	1000 - 10000 mg/l
MALEIC ANHYDRIDE Solubility in water Entirely degradable	> 10000 mg/l
TRIMETHYLOLPROPANE TRIACRYLATE Solubility in water Rapidly degradable	100 - 1000 mg/l
XYLENE (MIXTURE OF ISOMERS) Solubility in water Degradability: information not available	100 - 1000 mg/l
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymeth Solubility in water NOT rapidly degradable	ylene)]bisoxirane 0,1 - 100 mg/l
12.3. Bioaccumulative potential	
2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water	1,2



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SECTION 12. Ecological information ... / >>

	ETHYLBENZENE Partition coefficient: n-octanol/water	3,6
	METHYL ETHYL KETONE Partition coefficient: n-octanol/water	0,3
	ETHYL ACETATE Partition coefficient: n-octanol/water BCF	0,68 30
	N-BUTYL ACETATE Partition coefficient: n-octanol/water BCF	2,3 15,3
	MALEIC ANHYDRIDE Partition coefficient: n-octanol/water	-2,78
	TRIMETHYLOLPROPANE TRIACRYLATE Partition coefficient: n-octanol/water	0,67
	XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n-octanol/water BCF	3,12 25,9
	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymeth Partition coefficient: n-octanol/water BCF	ylene)]bisoxirane > 2,918 31
12	2.4. Mobility in soil	
	N-BUTYL ACETATE Partition coefficient: soil/water	< 3
	TRIMETHYLOLPROPANE TRIACRYLATE Partition coefficient: soil/water	2,2
	XYLENE (MIXTURE OF ISOMERS)	0.70

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

12.5. Results of PBT and vPvB assessment

Partition coefficient: soil/water

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

2,73

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. CONTAMINATED PACKAGING

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

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.



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SECTION 14. Transport information ... / >>

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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:

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

None

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

Substances subject to the Stockholm Convention:

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



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SECTION 15. Regulatory information ... / >>

METHYL ETHYL KETONE N-BUTYL ACETATE

SECTION 16. Other information

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

Flam. Lig. 2	Flammable liquid, category 2
Flam. Liq. 3	
Muta. 2	Flammable liquid, category 3 Germ cell mutagenicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	· · · · · ·
	Specific target organ toxicity - repeated exposure, category 1
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Eye Irrit. 2 Skin Irrit. 2	Eye irritation, category 2
	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1 Skin Sens. 1A	Skin sensitization, category 1
	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H341	Suspected of causing genetic defects.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H373	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	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- 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



SECTION 16. Other information ... / >>

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

Note for users:

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review: The following sections were modified: 02 / 03 / 04 / 05 / 07 / 08 / 09 / 10 / 11 / 12 / 15 / 16.