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Replaced revision:9 (Dated 09/02/2022)

(TV)

Safety Data Sheet

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

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

1.1. Product identifier

Code: 01G

Product name **CEM-O-LUX FINITURA**

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

ONE COMPONENT COLOURED ENAMEL.

1.3. Details of the supplier of the safety data sheet

NORD RESINE S.p.A. Name Full address Via Fornace Vecchia, 79 **District and Country** Susegana

Italia

Tel. +39 0438-437511 Fax +39 0438-435155

e-mail address of the competent person

responsible for the Safety Data Sheet

annabreda@nordresine.com

NORD RESINE S.p.A. Supplier:

1.4. Emergency telephone number

For urgent inquiries refer to +39 0438 437511

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation

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:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:











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SECTION 2. Hazards identification .../>>

Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains: Fatty acids, tall-oil, compds. with oleylamine

May produce an allergic reaction.

Precautionary statements:

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

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor.

P370+P378 In case of fire: use carbon anhydride, foam, nebulized water to extinguish.

P273 Avoid release to the environment.

Contains: Reaction mass of ethylbenzene and m-xylene and p-xylene

HYDROCARBONS, C9, AROMATICS 2-METHOXY-1-METHYLETHYL ACETATE

N-BUTYL ACETATE

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

VOC given in g/litre of product in a ready-to-use condition: 499,40 Limit value: 500,00

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

HYDROCARBONS, C9, AROMATICS

INDEX 25 ≤ x < 35 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336,

Aquatic Chronic 2 H411, EUH066

EC 918-668-5 CAS 128601-23-0 REACH Reg. 01-2119455851-35

Reaction mass of ethylbenzene and m-xylene and p-xylene

INDEX 11 ≤ x < 15 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 according to Annex VI to the CLP Regulation: C

EC 905-562-9 ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l CAS

REACH Reg. 01-2119555267-33

EPY 11.8.0 - SDS 1004.14



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SECTION 3. Composition/information on ingredients/>>

TITANIUM DIOXIDE

5 < x < 7**FUH212** INDEX

EC 236-675-5 CAS 13463-67-7 01-2119489379-17 REACH Reg.

2-BUTOXYETHANOL

Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315 INDEX 603-014-00-0 3 < x < 5

Flam. Liq. 3 H226, STOT SE 3 H336

Flam. Lig. 3 H226, STOT SE 3 H336, EUH066

203-905-0 FC LD50 Oral: 1300 mg/kg, LC50 Inhalation vapours: 3 mg/l/4h CAS 111-76-2

REACH Reg. 01-2119475108-36

2-METHOXY-1-METHYLETHYL ACETATE INDEX 607-195-00-7 $1 \le x < 3$

EC 203-603-9 CAS 108-65-6 REACH Reg. 01-2119475791-29

N-BUTYL ACETATE

INDEX 607-025-00-1 1 < x < 3

FC 204-658-1 CAS 123-86-4

REACH Reg. 01-2119485493-29 MIXED XYLENES, ETHYLBENZENE

INDEX 601-022-00-9 0 < x < 0,1

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,

Aquatic Chronic 3 H412, Classification note according to Annex VI to the

STOT RE 2 H373, Eye Dam. 1 H318, Skin Sens. 1A H317

CLP Regulation: C

EC 215-535-7 ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l

1330-20-7 CAS

REACH Reg. 01-2119488216-32

Fatty acids, tall-oil, compds. with oleylamine

INDEX 0 < x < 0,1

288-315-1 FC CAS 85711-55-3 REACH Reg. 01-2119974148-28

Hydrocarbons, C10-C12, isoalkanes, <2% aromatics

INDEX 0 < x < 0.1

EC 923-037-2

CAS

REACH Reg. 01-2119471991-29

ETHYLBENZENE

INDEX 601-023-00-4 0 < x < 0,1Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,

EUH066: ≥ 0%

Aquatic Chronic 3 H412 LC50 Inhalation vapours: 17,2 mg/l/4h

202-849-4

CAS 100-41-4

REACH Reg. 01-2119489370-35 **XYLENE (MIXTURE OF ISOMERS)**

601-022-00-9 INDFX 0 < x < 0,1

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

LC50 Inhalation vapours: 17,2 mg/l/4h

STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C

Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Aquatic Chronic 2 H411, EUH066

FC 215-535-7 ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l

1330-20-7 CAS REACH Reg.

01-2119488216-32

ETHYLBENZENE

601-023-00-4 0 < x < 0.1INDEX

202-849-4 EC 100-41-4 CAS

REACH Reg. 01-2119489370-35

QUARTZ

INDEX 0 < x < 0.1**STOT RE 1 H372**

EC 238-878-4 CAS 14808-60-7 **ETHYL METHYL KETONE**

INDEX 606-002-00-3 0 < x < 0.1

EC 201-159-0

CAS 78-93-3

REACH Reg. 01-2119457290-43

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

@EPY 11.8.0 - SDS 1004.14



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SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

IF SWALLOWED: immediately call a POISON CENTER / doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. 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).



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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

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

2-METHOXY-1-METHYLETHYL ACETATE

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/A` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας
		2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről



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HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
RUS	Россия	ПОСТАНОВЛЕНИЕ от 13 февраля 2018 г. N 25 ОБ УТВЕРЖДЕНИИ ГИГИЕНИЧЕСКИХ НОРМАТИВОВ ГН 2.2.5.3532-18 "ПРЕДЕЛЬНО ДОПУСТИМЫЕ КОНЦЕНТРАЦИИ (ПДК) ВРЕДНЫХ ВЕЩЕСТВ В ВОЗДУХЕ РАБОЧЕЙ ЗОНЫ"
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH RCP TLV	ACGIH 2023 ACGIH TLVs and BEIs – Appendix H

				TITANIUM DIOXI	DE		
Threshold Limit V	/alue						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	DEU	0,3		2,4		RESP Hinweis	
VLA	ESP	10					
VLEP	FRA	10					
TLV	GRC		10				
GVI/KGVI	HRV	10				INHAL	
GVI/KGVI	HRV	4				RESP	
NDS/NDSCh	POL	10				INHAL	
TLV	ROU	10		15			
ПДК	RUS	10				а, Ф	
WEL	GBR	10				INHAL	
WEL	GBR	4				RESP	
TLV-ACGIH		0,2				RESP	



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reshold Limit \	/alua		Z-IVIE I HUZ	XY-1-METHYI	EINTL F	ACEIAIE				
		TWA/8h		STEL/	1 Emin		Dam	ks / Observa	tiono	
Туре	Country		ppm	mg/m3		nm	Kemar	ks / Observa	IUONS	
TLV	CZE	mg/m3 270	49,14	550		opm 100,1	SKIN			
AGW	DEU	270	50	270		50	SIXIIN			
MAK	DEU	270	50	270		50				
VLA	ESP	275	50	550		100	SKIN			
VLA	FRA	275	50	550		100	SKIN			
TLV	GRC	275	50	550		100	SIMIN			
AK	HUN	275	50	550		100				
GVI/KGVI	HRV	275	50	550		100	SKIN			
VLEP	ITA	275	50	550		100	SKIN	Allegato XX	XXVIII D.Lgs.	81/08
TGG	NLD	550		000		100	OI (III)	, mogato //	otriii D.Lgs.	0.700
VLE	PRT	275	50	550		100	SKIN			
NDS/NDSCh	POL	260		520		100	SKIN			
TLV	ROU	275	50	550		100	SKIN			
ПДК	RUS	2,0	00	10		100	OI (III)	П		
МV	SVN	275	50	550		100	SKIN			
WEL	GBR	274	50	548		100	SKIN			
OEL	EU	275	50	550		100	SKIN			
redicted no-effe				550			51111			
Normal value in								0,635	mg/l	
Normal value in		er						0,0635	mg/l	
Normal value for								3.29	mg/kg	
Normal value for								0,329	mg/kg	
Normal value for								6,35	mg/l	
Normal value o								100	mg/l	
Normal value for		•	it					0,29	mg/kg	
ealth - Derived r								- ,==		
	Effe	cts on consume	ers			Effects of	on worke	rs		
Route of expos				ronic Cl	nronic	Acute		Acute	Chronic	Chronic
•	loca		nic loc	al sy	stemic	local		systemic	local	systemic
Oral		,		36				, -		,
				m	g/kg/d					
Inhalation				33					NPI	275
				m	g/m3					mg/m3
Skin			NF						NPI	796
					g/kg/d					mg/kg/d

				QUARTZ		
Threshold Limit V	/alue					
Type	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
VLE	PRT	0,025				RESP
NDS/NDSCh	POL	0,1				RESP
TLV	ROU	0,1				RESP
MV	SVN	0,15				RESP
OEL	EU	0,1				RESP
TLV-ACGIH		0,025				RESP



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				EIHY	LBENZENE					
reshold Limit V							_			
Туре	Country	TWA/8h			TEL/15min		Remar	ks / Observa	ations	
T 1. \ /	075	mg/m3	ppm		ig/m3	ppm	OLCINI			
TLV	CZE	200	45,4		500	113,5	SKIN			
AGW	DEU	88	20		76	40	SKIN			
MAK	DEU	88	20		76	40	SKIN			
VLA	ESP	441	100		884	200	SKIN			
VLEP	FRA	88,4	20		42	100	SKIN			
TLV	GRC	435	100		45	125				
AK	HUN	442	100		884	200	SKIN			
GVI/KGVI	HRV	442	100		884	200	SKIN			
VLEP	ITA	442	100	8	884	200	SKIN	Allegato XX	XXVIII D.Lgs.	81/08
TGG	NLD	215			30		SKIN			
VLE	PRT	442	100	8	884	200	SKIN			
NDS/NDSCh	POL	200			-00		SKIN			
TLV	ROU	442	100		84	200	SKIN			
ПДК	RUS	50		1	50			П		
MV	SVN	442	100	8	884	200	SKIN			
WEL	GBR	441	100	5	52	125	SKIN			
OEL	EU	442	100	8	884	200	SKIN			
TLV-ACGIH		87	20							
redicted no-effe	ct concentra	ation - PNEC								
Normal value in	fresh water							0,1	mg/l	
Normal value in	marine wate	er						0,01	mg/l	
Normal value for	r fresh water	sediment						13,7	mg/kg/d	
Normal value for	or marine wat	ter sediment						1,37	mg/kg/d	
Normal value for	or marine wat	ter, intermitten	t release					0,1	mg/l	
Normal value of	f STP microo	rganisms						9,6	mg/l	
Normal value for			v poisonina)					20	mg/kg	
Normal value for								2,68	mg/kg/d	
ealth - Derived r								_,		
		cts on consum				Effects (on worke	rs		
Route of expos				Chronic	Chronic	Acute	on works	Acute	Chronic	Chronic
rtouto or expec-	loca			local	systemic	local		systemic	local	systemic
Oral	1000	NPI		iodi	1,6 mg/kg bw/			oyotoniio	local	Systemis
Inhalation	LOV	V LOW		LOW	15 mg/m3	293 mg/m3		LOW	442 mg/m3	77 mg/m3
Skin	NPI	NPI		NPI	NPI	NPI		NPI	NPI	180 mg/kg
										bw/d



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	/			2-8010	XYETHAN	OL				
hreshold Limit V		TWA/8h			TCI /// C		D	·ks / Observa	4:	
Туре	Country				TEL/15min	n n nn	Remar	ks / Observa	ations	
TLV	CZE	mg/m3 100	ppm 20,4		1g/m3 100	ppm 40,8	SKIN			
AGW	DEU	49			98	,				
MAK	DEU	49	10 10		98 98	20 20	SKIN	Hinweis		
								Hinweis		
VLA	ESP	98	20		245	50	SKIN			
VLEP	FRA	49	10	2	246	50	SKIN			
TLV	GRC	120	25				01/111			
AK	HUN	98	20		46	50	SKIN			
GVI/KGVI	HRV	98	20		46	50	SKIN			
VLEP	ITA	98	20		246	50	SKIN	Allegato X	XXVIII D.Lgs	. 81/08
TGG	NLD	100			246		SKIN			
VLE	PRT	98	20		246	50	SKIN			
NDS/NDSCh	POL	98			200		SKIN			
TLV	ROU	98	20		246	50	SKIN			
ПДК	RUS				10			П		
MV	SVN	98	20		246	50	SKIN			
WEL	GBR	123	25	2	46	50	SKIN			
OEL	EU	98	20	2	46	50	SKIN			
TLV-ACGIH		97	20							
redicted no-effe	ct concentra	ation - PNEC								
Normal value in	fresh water							8,8	mg/l	
Normal value in	marine water	er						0,88	mg/l	
Normal value fo	r fresh water	sediment						34,6	mg/kg/d	
Normal value fo	r marine wat	ter sediment						3,46	mg/kg/d	
Normal value fo	r marine wat	ter, intermitter	t release					26,4	mg/l	
Normal value of	STP microo	rganisms						463	mg/l	
Normal value fo	r the food ch	nain (seconda	ry poisoning)				20	mg/kg	
Normal value fo				,				2,33	mg/kg/d	
ealth - Derived n								,	0 0	
	Effe	cts on consun	ners			Effects	on worke	ers		
Route of exposu	ure Acu	te Acut	е	Chronic	Chronic	Acute		Acute	Chronic	Chronic
	loca			local	systemi			systemic	local	systemic
Oral	.504	26.7			6.3			-,		-,
J. 41		-,	g bw/d		mg/kg b	w/d				
Inhalation	147	426	g ~ ••••	NPI	59	246		1091	NPI	98
	mg/i		n3		mg/m3	mg/m3		mg/m3		mg/m3
Skin	ME			NPI	NPI	MED		NPI	NPI	LOW
ORIII	IVILL	J INFI		INI	INII	IVILD		141 1	141 1	LOVV



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			ETF	IYLMET	HYL KETON	IE				
nreshold Limit \		T14/4/01		0.75			_			
Туре	Country	TWA/8h			L/15min		Remar	ks / Observa	itions	
T1 \ /	075	mg/m3	ppm	mg/		opm				
TLV	CZE	600	200,4	900		300,6	01/11			
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	200	900		300	SKIN			
GVI/KGVI	HRV	600	200	900		300				
VLEP	ITA	600	200	900		300		Allegato X	XXVIII D.Lgs	. 81/08
TGG	NLD	590		500			SKIN			
VLE	PRT	600	200	900		300				
NDS/NDSCh	POL	450		900			SKIN			
TLV	ROU	600	200	900		300				
ПДК	RUS	200		400)			П		
MV	SVN	600	200	900)	300	SKIN			
WEL	GBR	600	200	899)	300	SKIN			
OEL	EU	600	200	900)	300				
TLV-ACGIH		590	200	888	5	300				
redicted no-effe	ct concentrat	tion - PNEC								
Normal value in	r fresh water							55,8	mg/l	
Normal value ir	n marine water	٢						55,8	mg/l	
Normal value for	or fresh water	sediment						284,74	mg/kg	
Normal value o	f STP microor	ganisms						709	mg/l	
Normal value for	or the food cha	ain (secondary po	oisoning)					100	mg/kg	
Normal value for	or the terrestria	al compartment						22,5	mg/kg	
ealth - Derived i	no-effect leve	I - DNEL / DMEL								
	Effec	ts on consumers				Effects	on worke	rs		
Route of expos	ure Acute	e Acute	Chro	nic	Chronic	Acute		Acute	Chronic	Chronic
•	local	systemic	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
					3. 3 =					bw/d



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				N-BU	TYL ACETAT	Ξ				
nreshold Limit V										
Туре	Country	TWA/8h			STEL/15min			arks / Observa	itions	
		mg/m3	ppm		mg/m3	ppm				
TLV	CZE	241			723					
AGW	DEU	300	62		600	124				
MAK	DEU	480	100		960	200				
VLA	ESP	241	50		723	150				
VLEP	FRA	241	50		723	150				
TLV	GRC	710	150		950	200				
AK	HUN	241	50		723	150				
GVI/KGVI	HRV	241	50		723	150				
VLEP	ITA	241	50		723	150		Allegato XX	XXVIII D.Lgs.	81/08
TGG	NLD	150								
VLE	PRT	241	50		723	150				
NDS/NDSCh	POL	240			720					
TLV	ROU	241	50		723	150				
ПДК	RUS				0,1			П		
MV	SVN	300	62		600	124				
WEL	GBR	724	150		966	200				
OEL	EU	241	50		723	150				
TLV-ACGIH			50			150				
redicted no-effe	ct concentrati	ion - PNEC								
Normal value in	resh water							0,18	mg/l	
Normal value in	marine water							0,018	mg/l	
Normal value for	or fresh water s	sediment						0,981	mg/kg/d	
Normal value for	or marine water	r sediment						0,0981	mg/kg/d	
Normal value for	or water, interm	nittent release						0,36	mg/l	
Normal value of	f STP microord	anisms						35,6	mg/l	
Normal value for								0,0903	mg/kg	
ealth - Derived r			_					,	0 0	
	Effect	s on consumers				Е	ffects on wor	kers		
Route of expos	ure Acute	Acute		Chronic	Chronic	Α	cute	Acute	Chronic	Chronic
	local	systemic		local	systemic		ocal	systemic	local	systemic
Oral		2			2			-,		-,
0.4.		mg/kg/d			mg/kg/d					
Inhalation	300	300		35.7	35,7	6	00	600	300	300
	mg/m			mg/m3	mg/m3	•	ng/m3	mg/m3	mg/m3	mg/m3
Skin	g/111	6		9,	6		.5,0	11	9,0	11
O.M.I		mg/kg/d			mg/kg/d			mg/kg		mg/kg
		mg/ng/u			mg/ng/u			bw/d		bw/d

		Fatty	acids, tall-oil,	compds. with	oleylamine			
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					NPI		
Normal value in marir	ne water					NPI		
Normal value for fres	h water sedi	iment				NEA		
Normal value for mar	ine water se	ediment				NEA		
Normal value of STP	microorgan	isms				NPI		
Normal value for the	food chain (secondary poisor	ning)			470	μg/kg	
Normal value for the	terrestrial co	mpartment				NEA		
Normal value for the	atmosphere					NPI		
ealth - 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		NPI		12,0				
				μg/kg				
Inhalation		NEA	NEA	NEA	NEA	NEA	NEA	NEA
Skin		NPI	HIGH	12,0	HIGH	NPI	HIGH	24,0
				μg/kg				μg/kg



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		React	tion mass of e	thylbenzene and	m-xylene an	d p-xylene		
Threshold Limit	Value							
Туре	Country	TWA/8h		STEL/15mi	n	Remar	ks / Observ	/ations
		mg/m3	ppm	mg/m3	ppm			
VLEP	ITA	221	50	442	100	SKIN	Allegato >	XXXVIII D.Lgs. 81/08
OEL	EU	221	50	442	100	SKIN		
TLV-ACGIH		434	100	651	150			
Predicted no-eff	ect concentra	ation - PNEC						
Normal value	in fresh water						0,25	mg/l
Normal value	in marine water	er					0,25	mg/l
Normal value	for marine wa	ter sediment					14,33	mg/kg
Normal value	for the terrestr	rial compartme	nt				2,41	mg/kg

			MI	XED XYLE	NES, ETHY	LBEN	NZENE				
hreshold Limit \											
Туре	Country	TWA/8h			STEL/15min			Remar	ks / Observa	ations	
		mg/m3	ppm		mg/m3	ŗ	opm				
TLV	CZE	200			400			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				
AK	HUN	221			442			SKIN			
GVI/KGVI	HRV	221	50		442		100	SKIN			
VLEP	ITA	221	50		442		100	SKIN	Allegato XX	XXVIII D.Lgs	. 81/08
TGG	NLD	210			442			SKIN			
VLE	PRT	221	50		442		100	SKIN			
NDS/NDSCh	POL	100									
MV	SVN	221	50					SKIN			
WEL	GBR	220	50		441		100				
OEL	EU	221	50		442		100	SKIN			
TLV-ACGIH		434	100		651		150				
redicted no-effe	ct concentra	ation - PNEC									
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 water	r sediment							12,46	mg/kg/d	
Normal value for	or marine wa	ter sediment							12,46	mg/kg/d	
Normal value o									6,58	mg/l	
Normal value for	or the terrestr	rial compartment							2,31	mg/kg/d	
ealth - Derived i	no-effect lev	el - DNEL / DME	EL								
	Effe	cts on consumer	s				Effects on wor		rs		
Route of expos	ure Acu	te Acute		Chronic	Chron	ic	Acute		Acute	Chronic	Chronic
	loca	ıl systemi	c	local	syster	nic	local		systemic	local	systemic
Oral		NPI			5				•		•
					mg/kg	bw/d					
Inhalation	260	260		65,3	65,3		442		442	221	221
	mg/	m3 mg/m3		mg/m3	mg/m	3	mg/m3		mg/m3	mg/m3	mg/m3
Skin	LÖV	V LOW		NPI	125		-		LOW	-	212
					mg/kg	bw/d					mg/kg
						•					bw/d



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				HY	DROCARE	BONS, C9, ARO	MATICS			
Threshold Limit	t Value									
Type	Country	/ TW/	4/8h			STEL/15min		Remarks / Observa	ations	
	-	mg/	m3	ppm		mg/m3	ppm			
RCP TLV		100)	19		•				
Health - Derived	d no-effect	level - DN	IEL / DMEI	_						
	E	ffects on	consumers				Effects of	n workers		
Route of expo	osure A	cute	Acute		Chronic	Chronic	Acute	Acute	Chronic	Chronic
	lo	ocal	systemic		local	systemic	local	systemic	local	systemic
Oral			NPI			7,5		-		-
						mg/kg bw/	d			
Inhalation	N	IPI	NPI		NPI	32	NPI	NPI	NPI	151
						mg/m3				mg/m3
Skin	N	IPI	NPI		NPI	7,5	NPI	NPI	NPI	12,5
						mg/kg bw/	d			mg/kg
										bw/d

reshold Limit \	/alua		XY	LENE (MI)	KTURE OF IS	SOME	RS)				
Type	Country	TWA/8h			STEL/15min			Remar	ks / Observa	itions	
Турс	Country	mg/m3	ppm		mg/m3	ppi	m	rtomai	NO / ODDOLIVE	1110110	
TLV	CZE	200	46		400	9:		SKIN			
AGW	DEU	440	100		880	20		SKIN			
MAK	DEU	440	100		880	20		SKIN			
VLA	ESP	221	50		442	10		SKIN			
VLEP	FRA	221	50		442	10		SKIN			
TLV	GRC	435	100		650	15					
GVI/KGVI	HRV	221	50		442	10	00	SKIN			
VLEP	ITA	221	50		442	10		SKIN	Allegato XX	XXVIII D.Lqs	. 81/08
TGG	NLD	210			442			SKIN	J	-9-	
VLE	PRT	221	50		442	10	00	SKIN			
NDS/NDSCh	POL	100			200			SKIN			
TLV	ROU	221	50		442	10	00	SKIN			
MV	SVN	221	50		442	10	00	SKIN			
WEL	GBR	220	50		441	10	00	SKIN			
OEL	EU	221	50		442	10	00	SKIN			
TLV-ACGIH		434	100		651	15	50				
redicted no-effe	ct concentra	ation - PNEC									
Normal value ir	n fresh water								0,327	mg/l	
Normal value ir	n marine wate	er							0,327	mg/l	
Normal value for									12,46	mg/kg	
Normal value for	or marine wat	ter sediment							12,46	mg/kg	
Normal value for	or water, inter	mittent release							0,327	mg/l	
Normal value o									6,58	mg/l	
Normal value for	or the terrestr	ial compartment							2,31	mg/kg	
ealth - Derived i	no-effect leve	el - DNEL / DME	L								
	Effe	cts on consumers	S				Effects of	n worke	rs		
Route of expos	ure Acut	te Acute		Chronic	Chronic		Acute		Acute	Chronic	Chronic
Oral	loca	l systemi	С	local	systemi	С	local		systemic	local	systemic 1,6 mg/kg/d
Inhalation					14,8		289		289		77
					mg/m3		mg/m3		mg/m3		mg/m3
Skin					108 mg/kg/d		-				180 mg/kg/d



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SECTION 8. Exposure controls/personal protection/>>

	/-1			EIHY	LBENZENE					
reshold Limit \		TIA/A/OL		0.	TEL /4 E		D		4	
Туре	Country	TWA/8h			TEL/15min		Kemar	ks / Observa	illons	
TIM	075	mg/m3	ppm		g/m3	ppm	CIZIN			
TLV	CZE	200	45,4		00	113,5	SKIN			
AGW	DEU	88	20		76	40	SKIN			
MAK	DEU	88	20		76	40	SKIN			
VLA	ESP	441	100		84	200	SKIN			
VLEP	FRA	88,4	20		42	100	SKIN			
TLV	GRC	435	100		45	125				
AK	HUN	442			84		SKIN			
GVI/KGVI	HRV	442	100	_	84	200	SKIN			
VLEP	ITA	442	100		84	200	SKIN	Allegato XX	XXVIII D.Lgs	. 81/08
TGG	NLD	215			30		SKIN			
VLE	PRT	442	100		84	200	SKIN			
NDS/NDSCh	POL	200			00		SKIN			
TLV	ROU	442	100	8	84	200	SKIN			
ПДК	RUS	50		1	50			П		
MV	SVN	442	100	8	84	200	SKIN			
WEL	GBR	441	100	5	52	125	SKIN			
OEL	EU	442	100	8	84	200	SKIN			
TLV-ACGIH		87	20							
redicted no-effe	ct concentra	ation - PNEC								
Normal value in	fresh water							0,1	mg/l	
Normal value in marine water								0,01	mg/l	
Normal value for	r fresh water	r sediment						13,7	mg/kg/d	
Normal value for	or marine wat	ter sediment						1,37	mg/kg/d	
Normal value for	or marine wat	ter. intermittent	release					0,1	mg/l	
Normal value o								9,6	mg/l	
Normal value for			poisonina)					20	mg/kg	
Normal value for								2,68	mg/kg/d	
ealth - Derived r		•						2,00	mg/ng/u	
cuitii Boiiveai		cts on consume				Effects (on worke	re		
Route of expos			510	Chronic	Chronic	Acute	on works	Acute	Chronic	Chronic
rtoute or expos	loca		nic	local	systemic	local		systemic	local	systemic
Oral	1004	NPI	1110	iodai	1.6	iocai		Зузістпіс	local	Systernic
					mg/kg bw					
Inhalation	LOV	V LOW		LOW	15 mg/m3	293 mg/m3		LOW	442 mg/m3	77 mg/m3
Skin	NPI	NPI		NPI	NPI	NPI		NPI	NPI	180
SKIN	NPI	NPI		NPI	NPI	NPI		NPI	NPI	180 mg/kg
										bw/d

_egend:

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

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

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

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves.

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

Protect your hands with gloves of the following type:

Material: Laminated film - LLDPE

Thickness: 0,06 mm Breakthrough time: 480 min

Material: Polyvinyl alcohol (PVA)



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Breakthrough time: 480 min 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

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. 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).

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

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

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

• •	•					
Properties	Value	Information				
Appearance	liquid					
Colour	various					
Odour	characteristic of solvent					
Melting point / freezing point	not determined	Reason for missing data:not determined				
Initial boiling point	not available	Substance:HYDROCARBONS, C9,				
		AROMATICS				
		Initial boiling point: 165 °C				
Flammability	flammable liquid	,				
Lower explosive limit	not determined	Reason for missing data:not determined				
Upper explosive limit	not determined	Reason for missing data:not determined				
Flash point	23 ≤ T ≤ 60 °C	-				
Auto-ignition temperature	not determined	Reason for missing data:not determined				
Decomposition temperature	not determined	Reason for missing data:not determined				
pH	not applicable	-				
Kinematic viscosity	not determined	Reason for missing data:not determined				
Solubility	soluble in organic solvents					
Partition coefficient: n-octanol/water	not applicable					
Vapour pressure	not available	Substance: HYDROCARBONS, C9,				
		AROMATICS				
		Vapour pressure: 2 hPa				
Density and/or relative density	1,1 kg/l					
Relative vapour density	not determined	Reason for missing data:not determined				
Particle characteristics	not applicable					

Supplementary information for nanoforms

Silicon dioxide Shape 1:

Category spheroidal Shape spherical

Crystallinity

Crystalline structure 1:

Structure amorphous

Surface functionalisation / treatment

Surface treatments 1:

Surface treatment applied no

9.2. Other information





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

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC) : 45,40 % - 499,40 g/litre VOC (volatile carbon) 38,75 % - 426,26 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.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

ETHYL METHYL 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

The vapours may also form explosive mixtures with the air.

2-METHOXY-1-METHYLETHYL ACETATE

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

ETHYLBENZENE

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

2-BUTOXYETHANOL

May react dangerously with: aluminium, oxidising agents. Forms peroxides with: air.

ETHYL METHYL 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.

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.

MIXED XYLENES, ETHYLBENZENE

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

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

2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

ETHYL METHYL 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 METHYL KETONE

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



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

N-BUTYL ACETATE

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

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.

2-BUTOXYETHANOL May develop: hydrogen. **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 hazard classes as defined in Regulation (EC) No 1272/2008

MIXED XYLENES, ETHYLBENZENE

Has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

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.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

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

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

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).

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.

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.



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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 - vapours) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: >2000 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

TITANIUM DIOXIDE

LD50 (Oral): > 10000 mg/kg Rat

2-METHOXY-1-METHYLETHYL ACETATE

 LD50 (Dermal):
 2000 mg/kg Rat

 LD50 (Oral):
 6190 mg/kg Rat

ETHYLBENZENE

 LD50 (Dermal):
 15400 mg/kg Rabbit

 LD50 (Oral):
 3500 mg/kg Rat

 LC50 (Inhalation vapours):
 17,2 mg/l/4h Rat

2-BUTOXYETHANOL

LD50 (Dermal):> 2000 mg/kg Guinea pigLD50 (Oral):1300 mg/kg Guinea pigLC50 (Inhalation vapours):3 mg/l/4h Guinea pig

ETHYL METHYL KETONE

 LD50 (Dermal):
 6480 mg/kg Rabbit

 LD50 (Oral):
 2737 mg/kg Rat

 LC50 (Inhalation vapours):
 23,5 mg/l/8h Rat

N-BUTYL ACETATE

 LD50 (Dermal):
 > 14112 mg/kg Rabbit

 LD50 (Oral):
 10760 mg/kg Rat

 LC50 (Inhalation vapours):
 21,1 mg/l/4h Rat

Hydrocarbons, C10-C12, isoalkanes, <2% aromatics

 LD50 (Dermal):
 > 5000 mg/kg Rabbit

 LD50 (Oral):
 > 5000 mg/kg Rat

 LC50 (Inhalation vapours):
 > 4951 mg/l/4h Rat

Fatty acids, tall-oil, compds. with oleylamine

LD50 (Oral): 2000 mg/kg (rat)

Reaction mass of ethylbenzene and m-xylene and p-xylene

LD50 (Dermal): 12126 mg/kg Rabbit

ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 3523 mg/l Rat



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LC50 (Inhalation vapours):
ATE (Inhalation vapours):

27,124 mg/l/4h Rat 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

(figure used for calculation of the acute toxicity estimate of the mixture)

MIXED XYLENES, ETHYLBENZENE

LD50 (Dermal):

ATE (Dermal):

LD50 (Oral):

LC50 (Inhalation vapours):

HYDROCARBONS, C9, AROMATICS

LD50 (Dermal): LD50 (Oral):

LC50 (Inhalation vapours):

XYLENE (MIXTURE OF ISOMERS)

LD50 (Dermal):

ATE (Dermal):

ATE (Delilial).

LD50 (Oral): LC50 (Inhalation vapours):

ETHYLBENZENE LD50 (Dermal):

SKIN CORROSION / IRRITATION

LD50 (Oral): LC50 (Inhalation vapours): 4350 mg/kg Rabbit

1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

3523 mg/kg Rat 26 mg/l/4h Rat

15400 mg/kg Rabbit

3500 mg/kg Rat

17,2 mg/l/4h Rat

4350 mg/kg Rabbit

3523 mg/kg Rat

> 3160 mg/kg Rabbit 3492 mg/kg Rat

> 6193 mg/l/4h Rat

26 mg/l/4h Rat

2000 (Ililialation Vapours).

Causes skin irritation

2-METHOXY-1-METHYLETHYL ACETATE

Species: rabbit Result: non-irritating Method: OECD 404

2-BUTOXYETHANOL Species: rabbit Result: irritating

Method: EU Method B.4

N-BUTYL ACETATE Species: rabbit Result: non-irritating Method: OECD 404

XYLENE (MIXTURE OF ISOMERS)

Causes irritation (redness, burning sensation), dryness and slight flaking of the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

2-METHOXY-1-METHYLETHYL ACETATE

Species: rabbit Result: non-irritating Method: OECD 405

2-BUTOXYETHANOL Species: rabbit Result: irritating Method: OECD 405

N-BUTYL ACETATE Species: rabbit Result: non-irritating Method: OECD 405

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XYLENE (MIXTURE OF ISOMERS) Irritating to eyes

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Fatty acids, tall-oil, compds. with oleylamine

2-METHOXY-1-METHYLETHYL ACETATE

Species: guinea pig Result: non-sensitizing Method: OECD 406

N-BUTYL ACETATE Species: guinea pig Result: non-sensitizing Method: OECD 406

Skin sensitization

Fatty acids, tall-oil, compds. with oleylamine

Skin sensitization: Species: mouse Method: OECD 429 Classification: sensitizing.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

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 on-line 2014).

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 on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

May cause damage to organs

HYDROCARBONS, C9, AROMATICS NOAEL - Oral = 600 mg/kg/bw/d

Species: rat Method: OECD 408

NOAEC - Inhalation = 1800 mg/m³



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Species: rat Method: OECD 413

Target organs

ETHYLBENZENE

Test: STOT RE - Route: Inhalation. Auditory system, ears

Fatty acids, tall-oil, compds. with oleylamine

Species: rat OECD 422 method

Target organs: gastro-intestinal system

Effects: May cause damage to organs in case of prolonged or repeated exposure

XYLENE (MIXTURE OF ISOMERS)

May cause damage to organs (respiratory tract) through prolonged or repeated exposure.

ETHYLBENZENE

Test: STOT RE - Route: Inhalation. Auditory system, ears

Route of exposure

Fatty acids, tall-oil, compds. with oleylamine

Oral

ASPIRATION HAZARD

Toxic for aspiration

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

2-METHOXY-1-METHYLETHYL ACETATE

> 100 mg/l/96h Oncorhynchus mykiss LC50 - for Fish EC50 - for Crustacea 500 mg/l/48h Daphnia magna Chronic NOEC for Crustacea 100 mg/l Daphnia magna

2-BUTOXYETHANOL

EC10 for Algae / Aquatic Plants 370 mg/l/72h

N-BUTYL ACETATE

18 mg/l/96h Pimephales promelas LC50 - for Fish EC50 - for Crustacea 44 mg/l/48h Daphnia magna Chronic NOEC for Crustacea 23 mg/l Daphnia magna

Fatty acids, tall-oil, compds. with oleylamine

Chronic NOEC for Crustacea > 2,3 mg/l

Reaction mass of ethylbenzene and m-xylene and p-xylene

LC50 - for Fish 2,6 mg/l/96h p-xilene

HYDROCARBONS, C9, AROMATICS

EC50 - for Crustacea 3,2 mg/l/48h Daphnia magna

12.2. Persistence and degradability



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TITANIUM DIOXIDE

Solubility in water < 0,001 mg/l

Degradability: information not available

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable 83% (28 d, OECD 301 F)

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2-BUTOXYETHANOL

Solubility in water 900000 mg/l

Rapidly degradable

ETHYL METHYL KETONE

Solubility in water > 10000 mg/l

Rapidly degradable

N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l Rapidly degradable >90% (28 d)

Fatty acids, tall-oil, compds. with oleylamine

Rapidly degradable

Reaction mass of ethylbenzene and m-xylene and p-xylene

Rapidly degradable

MIXED XYLENES, ETHYLBENZENE

Degradability: information not available

HYDROCARBONS, C9, AROMATICS

Rapidly degradable

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2 Log Kow 20°C - OECD 117

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

ETHYL METHYL KETONE

Partition coefficient: n-octanol/water 0,3

N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2,3 25°C - OECD 117

CF 15,3

Fatty acids, tall-oil, compds. with oleylamine

Partition coefficient: n-octanol/water 1



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Reaction mass of ethylbenzene and m-xylene and p-xylene

BCF 25,

MIXED XYLENES, ETHYLBENZENE

Partition coefficient: n-octanol/water 3,12 BCF 25,9

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12 BCF 25,9

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1263

14.2. UN proper shipping name

ADR / RID: PAINT OF PAINT RELATED MATERIAL IMDG: PAINT OF PAINT RELATED MATERIAL IATA: PAINT OF PAINT RELATED MATERIAL



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SECTION 14. Transport information .../>>

14.3. Transport hazard class(es)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID:

Environmentally Hazardous

IMDG:

Marine Pollutant

IATA:

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 30

Special provision: 163, 367, 650

IMDG: EMS: F-E, S-E IATA:

Cargo:

Maximum quantity: 220 L Passengers: Maximum quantity: 60 L

Special provision: A3, A72, A192



Tunnel restriction code: (D/E)

Packaging instructions: 366 Packaging instructions: 355

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU:

P5c-E2

Limited Quantities: 5 It

Limited Quantities: 5 lt

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

Product

Point 3 - 40

Contained substance

75 Point

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

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

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

None



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SECTION 15. Regulatory information .../>>

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):

One - pack performance coatings.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

2-METHOXY-1-METHYLETHYL ACETATE

ETHYL METHYL KETONE

N-BUTYL ACETATE

Reaction mass of ethylbenzene and m-xylene and p-xylene

SECTION 16. Other information

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

Flam. Liq. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3 Acute Tox. 3 Acute toxicity, category 3 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

Eve Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1A Skin sensitization, category 1A

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.

H331 Toxic if inhaled H302 Harmful if swallowed. H312 Harmful in contact with skin.

Harmful if inhaled. H332

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.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H315 Causes skin irritation

H335 May cause respiratory irritation. 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.

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals



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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: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
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- The Merck Index. 10th Edition
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- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS 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.





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SECTION 16. Other information .../>>

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 / 09.