COMEC ITALIA SRL	Revision nr. 3
	Dated 14/02/2023
PLT 32 WHITE: 160,	Printed on 15/02/2023
· ·	Page n. 1/26
	Replaced revision:2 (Dated: 08/06/2022)

Safety Data Sheet
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

PLT 32 WHITE: 160. Product name UFI: HAE1-30KX-F00D-0UQN

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

Intended use Screen printing ink.

1.3. Details of the supplier of the safety data sheet

Name COMEC ITALIA SRL Full address Piazzale del lavoro 149 District and Country 21044 Cavaria (VA)

ITALIA

Tel. +39 0331 219516 Fax +39 0331 216161

e-mail address of the competent person

responsible for the Safety Data Sheet info@comec-italia.it Supplier: Edgardo Baggini

1.4. Emergency telephone number

For urgent inquiries refer to CENTRO ANTIVELENI OSPEDALE NIGUARDA MILANO Tel. 02/66101029 (24/24h) -

CENTRO ANTIVELENI POLICLINICO A.GEMELL ROMA Tel. 06/3054343 (24/24h) -

Flammable liquid and vangur

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication: Elammable liquid category 3

riailillable liquid, category 3	11220	riaititiable liquiu attu vapout.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
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.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity,	H411	Toxic to aquatic life with long lasting effects.
category 2		

LIGGE

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2.2. Label elements

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

Hazard pictograms:









Signal words:

Danger

Hazard statements:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335May cause respiratory irritation.H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

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.

P370+P378 In case of fire: use chemical powder, CO2 or dry send to extinguish.

P273 Avoid release to the environment.

Contains: AROMATIC HYDROCARBONS, C9

Blocked aliphatic polyisocyanate based on HDI

Binder

2-METHOXY-1-METHYLETHYL ACETATE

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)	
TITANIUM DIOXIDE	n 201101 /0	· · · · · · · · · · · · · · · · · · ·	
INDEX -	42,5 ≤ x < 45		
EC 236-675-5			
CAS 13463-67-7			
Binder			
INDEX	$16,5 \le x < 18$	Flam. Liq. 3 H226, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411	STOT SE 3 H335,
EC		STOT OF STISSO, Aquatic Officials 2 11411	
CAS -			
AROMATIC HYDROCARBONS, C9			
INDEX -	13,5 ≤ x < 15	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335 Aquatic Chronic 2 H411, EUH066, Classification note a	
EC 918-668-5		to the CLP Regulation: P	
CAS -			
REACH Reg. 01-2119455851-35-			
xxxx Blocked aliphatic polyisocyanate			
based on HDI INDEX	6 ≤ x < 7	Skin Sens. 1 H317	
EC -			
CAS 208408-04-2			
2-BUTOXYETHANOL			
INDEX 603-014-00-0	$4 \le x < 4,5$	Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H31	9, Skin Irrit. 2 H315
EC 203-905-0		LD50 Oral: 1200 mg/kg, LC50 Inhalation vapours: 3 mg	g/l/4h
CAS 111-76-2			
REACH Reg. 01-2119475108-36-			
2-METHOXY-1-METHYLETHYL			
ACETATE	2,5 ≤ x < 3	Flam. Liq. 3 H226, STOT SE 3 H336	
EC 203-603-9	,-	1	
CAS 108-65-6			
REACH Reg. 01-2119475791-29-			
XXXX Hydrocarbons, C10, aromatics, <1% naphtalene			
INDEX -	$2 \le x < 2,5$	Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2	2 H411, EUH066
EC 918-811-1			
CAS -			
REACH Reg. 01-2119463583-34- xxxx			
XYLENE (MIXTURE OF ISOMERS)			
INDEX 601-022-00-9	$0.5 \le x < 0.6$	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H3 STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 3 H412, Classification note according Regulation: C	STOT SE 3 H335,
EC 215-535-7		STA Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11	,58 mg/l/4h

CAS 1330-20-7

XXXX
N-BUTYL ACETATE

REACH Reg. 01-2119488216-32-

INDEX 607-025-00-1

 $0.05 \le x < 0.07$

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

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

REACH Reg. 01-2119485493-29-

XXXX

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 FOUIPMENT

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).

SECTION 6. Accidental release measures

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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 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Deutschland

Regulatory References:

DEU

BGR България НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ,

СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари

Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů CZE Česká Republika

Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher

Arbeitsstoffe, Mitteilung 56

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DNK Danmark Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019 ESP

España Límites de exposición profesional para agentes químicos en España 2021 FRA France

Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS

Decreto Legislativo 9 Aprile 2008, n.81

Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste

lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit

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

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

Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea

si completarea hotărârii guvernului nr. 1.093/2006 Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS

Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;

Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH **ACGIH 2021**

TITANIUM DIOXIDE								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks /		
		mg/m3	ppm	mg/m3	ppm	Observation	S	
TLV	BGR	10	ppiii	mg/mo	ррш	RESP		
						RESP		
TLV	DNK	6					Som Ti	
VLA	ESP	10						
VLEP	FRA	10						
NDS/NDSCh	POL	10				INHAL		
TLV	ROU	10		15				
NGV/KGV	SWE	5					Totaldan	nm
WEL	GBR	10				INHAL		
WEL	GBR	4				RESP		
TLV-ACGIH		2,5				RESP		
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,127	mg/l			
Normal value in marine water				1	mg/l			
Normal value for fresh water se	diment			1000	mg/k	g		
Normal value for marine water s	sediment			100	mg/k	g		
Normal value for water, intermit	tent release			0,61	mg/l			
Normal value of STP microorga	nisms			100	mg/l			
Normal value for the terrestrial of	compartment			100	mg/k	g		
Health - Derived no-effect		DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				700 mg/m3				· · · · · · · · · · · · · · · · · · ·

Oral 700 mg/m3

Inhalation 10 mg/m3

AROMATIC HYDROCARBONS, C9

Threshold Limit Value

ITA

NLD

PRT

POL

ROU

SWE

TUR

GBR

EU

Italia

Nederland

Portugal

Polska

România

Sverige

Türkiye

OEL EU

United Kingdom

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Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm	CDOCIVAL		
VLEP	ITA	100	20				1,2,3 trim	netilbenzene
OEL	EU	100	20				1,2,3 trim	netilbenzene
TLV-ACGIH			25				1,2,3 trim	netilbenzene
Health - Derived no-ef	ffect level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	11 mg/kg		Зузіснію		11 mg/kg
Inhalation			VND	32 mg/m3			VND	bw/d 150 mg/m3
Skin			VND	11 mg/kg			VND	25 mg/kg
2-BUTOXYETHANOL								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks	1	
	•	mg/m3	ppm	mg/m3	ppm	Observat	tions	
TLV	BGR	98	20	246	50	SKIN		
TLV	CZE	100	20,4	200	40,8	SKIN		
AGW	DEU	49	10	98 (C)	20 (C)	SKIN		
MAK	DEU	49	10	98	20	SKIN	Hinweis	
TLV	DNK	98	20			SKIN	E	
VLA	ESP	98	20	245	50	SKIN		
VLEP	FRA	49	10	246	50	SKIN		
VLEP	ITA	98	20	246	50	SKIN		
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		
NGV/KGV	SWE	50	10	246	50	SKIN		
ESD	TUR	98	20	246	50	SKIN		
WEL	GBR	123	25	246	50	SKIN		
OEL	EU	98	20	246	50	SKIN		
TLV-ACGIH		97	20					
Predicted no-effect concer	ntration - PNEC							
Normal value in fresh water	er			8,8	mg	/I		
Normal value in marine wa	ater			0,88	mg	/I		
Normal value for fresh wat	ter sediment			34,6	mg	/kg		
Normal value for marine w	ater sediment			3,46	mg	/kg		
Normal value of STP micro	oorganisms			463	mg	/I		
Normal value for the terres	strial compartment			2,8	mg	/kg		
Health - Derived no-en	Effects on	OMEL			Effects on workers			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic

Revision nr. 3 **COMEC ITALIA SRL** Dated 14/02/2023 Printed on 15/02/2023 **PLT 32 WHITE: 160,** Page n. 8/26 Replaced revision:2 (Dated: 08/06/2022) Oral 13,4 mg/kg 3,2 mg/kg 123 mg/m3 49 mg/m3 Inhalation 123 mg/m3 50 ppm 135 ppm 20 ppm Skin 44,5 mg/kg 38 mg/kg 89 mg/kg 75 mg/kg DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE, REACTION MASS Predicted no-effect concentration - PNEC 0,018 Normal value in fresh water mg/l 0,002 Normal value in marine water mg/l Normal value for fresh water sediment 0,16 mg/kg/d Normal value for marine water sediment 0,016 mg/kg/d mg/l Normal value for water, intermittent release 0,18 Normal value of STP microorganisms 10 mg/l Normal value for the terrestrial compartment 0.09 mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic Inhalation 5 mg/m3 VND 8,3 mg/m3 VND 2-METHOXY-1-METHYLETHYL ACETATE **Threshold Limit Value** Country TWA/8h STEL/15min Remarks / Type Observations mg/m3 ppm mg/m3 ppm SKIN TI V BGR 275 50 550 100 CZE 100,1 270 49,14 550 SKIN TLV AGW DEU 270 50 270 50 MAK DEU 270 50 270 50 TLV DNK 275 50 SKIN Ε 550 VI A FSP 275 50 100 SKIN VI FP FRA 275 50 550 100 SKIN VLEP ITA 275 50 550 100 SKIN TGG NLD 550 VLE PRT 275 50 550 100 SKIN NDS/NDSCh POL 260 520 SKIN TLV ROU 275 550 SKIN 50 100 NGV/KGV SWE 50 550 100 275 SKIN ESD TUR 275 50 550 100 SKIN WEL GBR 274 50 548 100 SKIN OEL EU 275 50 550 100 SKIN Predicted no-effect concentration - PNEC Normal value in fresh water 0,635 mg/l Normal value in marine water 0,0635 mg/l Normal value for fresh water sediment 3,29 mg/kg Normal value for marine water sediment 0,329 mg/l

Normal value for water, intermi		PLT 32 WHITE: 160,							
Normal value for water, intermi						R	eplaced revision:2 (Date	ed: 08/06/2022)	
voimai vaiue ioi water, interm	ittent release			6.35					
Normal value of CTD :!				6,35	mg				
Normal value of STP microorga					mg				
Normal value for the terrestrial		DMF!		0,29	mg	/kg			
Health - Derived no-effec	Effects on consumers	DMEL			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral			VND	1,67 mg/kg		,			
Inhalation			33 mg/m3	33 mg/m3	550 mg/m3		VND	275 mg/m3	
Skin			VND	54,8 mg/kg			VND	153,5 mg/kg	
Hydrocarbons, C10, aron									
Health - Derived no-effec	t level - DNEL / I Effects on consumers	DMEL			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic	
Oral			VND	systemic 7,5 mg/kg/d		systemic		systemic	
Inhalation			VND	32 mg/m3			VND	151 mg/m3	
Skin			VND	7,5 mg/kg/d			VND	12,5 mg/kg/	
34.11			VIII	r,o mg/ng/d			VIID	12,0 mg/kg/	
reaction mass of isomers Predicted no-effect concentrati	of: C7-9-alkyl 3	3-(3,5-di-tert-buty	I-4-hydroxypho	enyl)propionat	te				
Normal value in fresh water				0,018	mg	/I			
Normal value in marine water				0,0018	mg	/I			
Normal value for fresh water se	ediment			2		/kg/d			
Normal value for marine water				0,2		/kg/d			
Normal value for water, intermi				0,018	mg				
Normal value of STP microorg				100	mg				
Normal value for the food chair		nina)		41,33		/kg			
Normal value for the terrestrial		······ 81		10		/kg/d			
Normal value for the terrestrial Health - Derived no-effec	t level - DNEL / I	DMEL		10		, ng/u			
	Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral				0,93 mg/kg					
Inhalation				bw/d 1,62 mg/m3				6,6 mg/m3	
Skin				0,83 mg/kg bw/d				1,67 mg/kg bw/d	
XYLENE (MIXTURE OF IS	OMEDS)								
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15min		Remar Observ			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	221	50	442	100	SKIN			
TLV	CZE	200	45,4	400	90,8	SKIN			
AGW	DEU	440	100	880	200	SKIN			
MAK	DEU	440	100	880	200	SKIN			
TLV	DNK	109	25			SKIN	E		

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VLA	ESP	221	50	442	100	SKIN		
VLEP	FRA	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		
NGV/KGV	SWE	221	50	442	100	SKIN		
ESD	TUR	221	50	442	100	SKIN		
WEL	GBR	220	50	441	100	SKIN		
OEL	EU	221	50	442	100	SKIN		
TLV-ACGIH			20					
Predicted no-effect concer	ntration - PNEC							
Normal value in fresh wate	er			0,327	mg	1/ I		
Normal value in marine wa	ater			0,327	mg	1/ I		
Normal value for fresh wat	ter sediment			12,46	mg	J/kg		
				12,46	mg	ı/kg		
Normal value for marine w	ater sediment							
				0,327	mg	ı/l		
Normal value for marine w Normal value for water, int Normal value of STP micro	termittent release			0,327 6,58	mg mg			
Normal value for water, int Normal value of STP micro	termittent release porganisms				mg			
Normal value for water, int Normal value of STP micro Normal value for the terres	termittent release corganisms strial compartment ffect level - DNEL / I	DMEL		6,58	mç mç	ŋ/l		
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-e	termittent release corganisms strial compartment ffect level - DNEL / E Effects on consumers			6,58	mg Effects on workers	ŋ/l ŋ/kg		
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-e	termittent release corganisms strial compartment ffect level - DNEL / E Effects on	DMEL Acute systemic	Chronic local	6,58 2,31 Chronic systemic	mg mg Effects on	ŋ/l	Chronic local	Chronic systemic
Normal value for water, int	termittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local		Chronic local VND	6,58 2,31 Chronic	mg Effects on workers	nyll nylkg Acute	Chronic local	systemic
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-et Route of exposure Oral Inhalation	termittent release corganisms strial compartment ffect level - DNEL / E Effects on consumers		VND	Chronic systemic 1,6 mg/kg/d 14,8 mg/m3	mg mg Effects on workers Acute local	Acute systemic 289 mg/m3	77 mg/m3	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-et Route of exposure	termittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local	Acute systemic	VND	6,58 2,31 Chronic systemic 1,6 mg/kg/d	mg mg Effects on workers Acute local	Acute systemic		systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin	termittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local	Acute systemic	VND	Chronic systemic 1,6 mg/kg/d 14,8 mg/m3	mg mg Effects on workers Acute local	Acute systemic 289 mg/m3	77 mg/m3	
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value	dermittent release porganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3	Acute systemic 174 mg/m3	VND	Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d	mg mg Effects on workers Acute local	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value	dermittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3	Acute systemic	VND	Chronic systemic 1,6 mg/kg/d 14,8 mg/m3	mg mg Effects on workers Acute local	Acute systemic 289 mg/m3	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value	dermittent release porganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3	Acute systemic 174 mg/m3	VND	Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d	mg mg Effects on workers Acute local	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type	dermittent release porganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3	Acute systemic 174 mg/m3 TWA/8h	VND VND VND	Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d	Effects on workers Acute local 289 mg/m3 174 mg/m3	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type	dermittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3	Acute systemic 174 mg/m3 TWA/8h mg/m3	VND VND VND	Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d STEL/15min mg/m3	Effects on workers Acute local 289 mg/m3 174 mg/m3	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV	termittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3 Country BGR	Acute systemic 174 mg/m3 TWA/8h mg/m3 710	VND VND VND	Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d STEL/15min mg/m3 950	mg mg Effects on workers Acute local 289 mg/m3 174 mg/m3	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-et Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW	dermittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3 Country BGR CZE	Acute systemic 174 mg/m3 TWA/8h mg/m3 710 950	VND VND VND ppm 196,65	6,58 2,31 Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d STEL/15min mg/m3 950 1200	Effects on workers Acute local 289 mg/m3 174 mg/m3	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value Type TLV TLV AGW	dermittent release porganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3 Country BGR CZE DEU	Acute systemic 174 mg/m3 TWA/8h mg/m3 710 950 300	VND VND VND Ppm 196,65	6,58 2,31 Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d STEL/15min mg/m3 950 1200	Effects on workers Acute local 289 mg/m3 174 mg/m3	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value TLV TLV TLV AGW TLV VLA	dermittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3 Country BGR CZE DEU DNK	Acute systemic 174 mg/m3 TWA/8h mg/m3 710 950 300 710	VND VND VND ppm 196,65 62 150	6,58 2,31 Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d STEL/15min mg/m3 950 1200 600 (C)	Effects on workers Acute local 289 mg/m3 174 mg/m3	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-el Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value TLV TLV AGW TLV VLA	ermittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3 Country BGR CZE DEU DNK ESP	Acute systemic 174 mg/m3 TWA/8h mg/m3 710 950 300 710 241	VND VND VND VND 196,65 62 150 50	6,58 2,31 Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d STEL/15min mg/m3 950 1200 600 (C)	Effects on workers Acute local 289 mg/m3 174 mg/m3 ppm 248,4 124 (C)	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value TLV TLV TLV VLA VLEP	dermittent release porganisms strial compartment ffect level - DNEL / I Effects on consumers	Acute systemic 174 mg/m3 TWA/8h mg/m3 710 950 300 710 241 710	VND VND VND VND 196,65 62 150 50	6,58 2,31 Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d STEL/15min mg/m3 950 1200 600 (C)	mg mg mg Effects on workers Acute local 289 mg/m3 174 mg/m3 ppm 248,4 124 (C) 150 200	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value TLV TLV AGW TLV VLA VLEP VLEP TGG	etrmittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3 Country BGR CZE DEU DNK ESP FRA ITA	TWA/8h mg/m3 710 950 300 710 241 710 241	VND VND VND VND 196,65 62 150 50	6,58 2,31 Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d STEL/15min mg/m3 950 1200 600 (C)	mg mg mg Effects on workers Acute local 289 mg/m3 174 mg/m3 ppm 248,4 124 (C) 150 200	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-ef Route of exposure Oral Inhalation Skin N-BUTYL ACETATE Threshold Limit Value TLV TLV AGW TLV VLA VLEP VLEP TGG	Bereit Be	Acute systemic 174 mg/m3 TWA/8h mg/m3 710 950 300 710 241 710 241 150	VND VND VND VND 196,65 62 150 50 150 50	6,58 2,31 Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723	mg mg mg Effects on workers Acute local 289 mg/m3 174 mg/m3 ppm 248,4 124 (C) 150 200 150	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3
Normal value for water, int Normal value of STP micro Normal value for the terres Health - Derived no-et Route of exposure Oral Inhalation	ermittent release corganisms strial compartment ffect level - DNEL / I Effects on consumers Acute local 174 mg/m3 Country BGR CZE DEU DNK ESP FRA ITA NLD PRT	TWA/8h mg/m3 710 950 300 710 241 710 241 150 241	VND VND VND VND 196,65 62 150 50 150 50	6,58 2,31 Chronic systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d STEL/15min mg/m3 950 1200 600 (C) 724 940 723	mg mg mg Effects on workers Acute local 289 mg/m3 174 mg/m3 ppm 248,4 124 (C) 150 200 150	Acute systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3

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WEL	GBR	724	150	966	200			
OEL	EU	241	50	723	150			
TLV-ACGIH			50		150			
Predicted no-effect concer	ntration - PNEC							
Normal value in fresh wate	er			0,18	m	g/l		
Normal value in marine wa	ater			0,01	m	g/l		
Normal value for fresh wat	ter sediment			0,98	m	g/kg		
Normal value for marine w	vater sediment			0,09		g/kg		
Normal value for water, in	termittent release			0,36	m			
Normal value of STP micro				35,6	m			
Normal value for the terres				0,09		g/kg		
Health - Derived no-e	ffect level - DNEL / D Effects on	MEL			Effects on	<i>ਹ</i> ਾ:ਾ ਹ		
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Inhalation	859,7 mg/m3	895,7 mg/m3	102,34 mg/m3	systemic 102,34 mg/m3	960 mg/m3	systemic 960 mg/r		systemic 480 mg/m3
Traduci da: Indonesia Predicted no-effect concer								
Normal value in fresh wate	er			0,0032	m	g/l		
Normal value in marine wa	ater			0,0032	m	g/l		
Normal value for fresh wat	ter sediment			15,6		g/kg		
					•	0 0		
Normal value for water, in	termittent release			0,0032	m	g/l		
				0,0032 35				
Normal value for water, into Normal value of STP micro	oorganisms				m	g/l		
	oorganisms strial compartment ffect level - DNEL / D Effects on	MEL		35	me Effects on			
Normal value of STP micro Normal value for the terres Health - Derived no-e	oorganisms strial compartment ffect level - DNEL / D Effects on consumers		Chronic local	35 0,865	me Effects on workers	g/l g/kg/d	Chronic local	Chronic
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure	oorganisms strial compartment ffect level - DNEL / D Effects on	Acute systemic	Chronic local	35	me Effects on	g/l	Chronic local	Chronic systemic
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral	oorganisms strial compartment ffect level - DNEL / D Effects on consumers		Chronic local	35 0,865 Chronic systemic	me Effects on workers	g/l g/kg/d Acute		systemic
Normal value of STP micro	oorganisms strial compartment ffect level - DNEL / D Effects on consumers	Acute systemic	Chronic local	35 0,865 Chronic	me Effects on workers	g/l g/kg/d Acute		
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral Inhalation Skin	oorganisms strial compartment ffect level - DNEL / D Effects on consumers Acute local	Acute systemic	Chronic local	35 0,865 Chronic systemic 4,4 mg/m3 13 mg/kg	me Effects on workers	g/l g/kg/d Acute		17,8 mg/m3 25,5 mg/kg
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral Inhalation Skin BUTANOL Threshold Limit Value	oorganisms strial compartment ffect level - DNEL / D Effects on consumers Acute local	Acute systemic	Chronic local	35 0,865 Chronic systemic 4,4 mg/m3 13 mg/kg	me Effects on workers	g/l g/kg/d Acute systemic	arks /	17,8 mg/m3 25,5 mg/kg
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral Inhalation Skin BUTANOL Threshold Limit Value	oorganisms strial compartment ffect level - DNEL / D Effects on consumers Acute local	Acute systemic 1,3 mg/kg bw/d	Chronic local	35 0,865 Chronic systemic 4,4 mg/m3 13 mg/kg bw/d	me Effects on workers	g/l g/kg/d Acute systemic		17,8 mg/m3 25,5 mg/kg
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral Inhalation Skin BUTANOL Threshold Limit Value Type	oorganisms strial compartment ffect level - DNEL / D Effects on consumers Acute local	Acute systemic 1,3 mg/kg bw/d TWA/8h		35 0,865 Chronic systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min	Effects on workers Acute local	g/l g/kg/d Acute systemic	arks /	17,8 mg/m3 25,5 mg/kg
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral Inhalation Skin BUTANOL Threshold Limit Value Type	e Country	Acute systemic 1,3 mg/kg bw/d TWA/8h mg/m3		35 0,865 Chronic systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3	Effects on workers Acute local	g/l g/kg/d Acute systemic	arks /	17,8 mg/m3 25,5 mg/kg
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral Inhalation Skin BUTANOL Threshold Limit Value Type	e Country BGR	Acute systemic 1,3 mg/kg bw/d TWA/8h mg/m3 100	ppm	35 0,865 Chronic systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3 150	Effects on workers Acute local	g/l g/kg/d Acute systemic	arks /	17,8 mg/m3 25,5 mg/kg
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral Inhalation Skin BUTANOL Threshold Limit Value TLV TLV AGW	e Country BGR CZE	Acute systemic 1,3 mg/kg bw/d TWA/8h mg/m3 100 300	ppm 97,5	35 0,865 Chronic systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3 150 600	Effects on workers Acute local	g/l g/kg/d Acute systemic	arks /	17,8 mg/m3 25,5 mg/kg
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral Inhalation Skin BUTANOL Threshold Limit Value Type TLV TLV AGW MAK	e Country BGR CZE DEU	Acute systemic 1,3 mg/kg bw/d TWA/8h mg/m3 100 300 310	ppm 97,5 100	35 0,865 Chronic systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3 150 600 310	ppm 195 100	g/l g/kg/d Acute systemic	arks / rvations	17,8 mg/m3 25,5 mg/kg
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral Inhalation Skin BUTANOL Threshold Limit Value Type TLV TLV AGW MAK TLV	e Country BGR CZE DEU DEU	Acute systemic 1,3 mg/kg bw/d TWA/8h mg/m3 100 300 310	ppm 97,5 100	35 0,865 Chronic systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3 150 600 310 310	ppm 195 100	g/l g/kg/d Acute systemic	arks / rvations	17,8 mg/m3 25,5 mg/kg
Normal value of STP micro Normal value for the terres Health - Derived no-e Route of exposure Oral Inhalation	e Country BGR CZE DEU DNK	TWA/8h mg/m3 100 310 310	97,5 100 100	35 0,865 Chronic systemic 4,4 mg/m3 13 mg/kg bw/d STEL/15min mg/m3 150 600 310 310 150 (C)	ppm 195 100 100 50 (C)	g/l g/kg/d Acute systemic	arks / rvations	17,8 mg/m3 25,5 mg/kg

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WEL	GBR			154	50	SKIN	
TLV-ACGIH		61	20				
Predicted no-effect concentrati	on - PNEC						
Normal value in fresh water				0,082	m	g/l	
Normal value in marine water				0,0082	mę	g/l	
Normal value for fresh water se	ediment			0,178	mç	g/kg	
Normal value for marine water	sediment			0,0178	mç	g/kg	
Normal value for water, interm	ttent release			2,25	mç	g/I	
Normal value of STP microorga	anisms			2476	mç	g/I	
Normal value for the terrestrial	compartment			0,015	mç	g/kg	

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Health - Derived no-effe	ct level - DNEL / D	OMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	3125 mg/kg				
Inhalation			55 mg/m3	VND			310 mg/m3	VND

Legend:

NGV/KGV

\A/EI

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

SWF

CDD

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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.

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

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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.

Information

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
Appearance	not available
Colour	not available
Odour	not available
Melting point / freezing point	not available
Initial boiling point	not available
Flammability	not available
Lower explosive limit	not available
Upper explosive limit	not available
Flash point	23 ≤ T ≤ 60 °C
Auto-ignition temperature	not available
Decomposition temperature	not available
рН	not available
Kinematic viscosity	not available
Solubility	not available
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	not available
Relative vapour density	not available
Particle characteristics	not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

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Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

2-BUTOXYETHANOL

Decomposes under the effect of heat.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

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

N-BUTYL ACETATE

Decomposes on contact with: water.

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-BUTOXYETHANOL

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

2-METHOXY-1-METHYLETHYL ACETATE

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

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.

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.

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.

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.

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.

2-BUTOXYETHANOL

May develop: hydrogen.

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

Hydrocarbons, C10, aromatics, <1% naphtalene Specific target organ toxicity (STOT) - single exposure: NOAEC> 600 mg / kg Inhalation. Rat

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

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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 ambient air.

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

XYLENE (MIXTURE OF ISOMERS)

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

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.

Interactive effects

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.

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).

ACUTE TOXICITY

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

>2000 mg/kg

ATE (Dermal) of the mixture:

Not classified (no significant component)

TITANIUM DIOXIDE

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LD50 (Oral): > 5000 mg/l Ratto/Rat LC50 (Inhalation mists/powders): > 6,82 mg/l Ratto/Rat

AROMATIC HYDROCARBONS, C9

 LD50 (Dermal):
 > 3160 mg/kg Ratto / Rat

 LD50 (Oral):
 3492 mg/kg Ratto / Rat

 LC50 (Inhalation vapours):
 > 6193 mg/l/4h Ratto / Rat

Blocked aliphatic polyisocyanate based on HDI

LD50 (Oral): > 5000 mg/kg Ratto / Rat (OECD TG 423)

2-BUTOXYETHANOL

LD50 (Oral): 1200 mg/kg Guinea pig

LC50 (Inhalation vapours): 3 mg/l/4h Rat

DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE, REACTION MASS

 LD50 (Dermal):
 > 2000 mg/kg Rat

 LD50 (Oral):
 > 5000 mg/kg Rat

 LC50 (Inhalation vapours):
 > 11 mg/l Rat (4h)

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Coniglio / Rabbit LD50 (Oral): 8500 mg/kg Ratto / Rat LC50 (Inhalation vapours): 4345 ppm/6h Ratto / Rat

Hydrocarbons, C10, aromatics, <1% naphtalene

 LD50 (Dermal):
 > 2000 mg/kg Coniglio / Rabbit

 LD50 (Oral):
 6318 mg/kg Ratto / Rat

 LC50 (Inhalation vapours):
 > 4688 mg/kg/4h Ratto / Rat

gamma-methacryloxy propyl trimethoxy silane

 LD50 (Dermal):
 > 2000 mg/kg Ratto / Rat

 LD50 (Oral):
 > 2000 mg/kg Ratto / Rat

 > 2000 mg/kg Ratto / Rat

MODA FLOW

 $\begin{array}{lll} \mbox{LD50 (Dermal):} & > 2000 \mbox{ mg/kg Ratto - Rat} \\ \mbox{LD50 (Oral):} & > 5000 \mbox{ mg/kg Ratto - Rat} \\ \mbox{LC50 (Inhalation mists/powders):} & > 20 \mbox{ mg/l/4h Ratto - Rat} \\ \end{array}$

XYLENE (MIXTURE OF ISOMERS)

LD50 (Dermal): 4350 mg/kg Rabbit

STA (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/kg Rat LC50 (Inhalation vapours): 11,58 mg/l/4h Rat

N-BUTYL ACETATE

		T =	
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		Treplaced Tevision.2 (Bated: 00/00/2022)	
LDFO (Dames)	A 4000 www.llew Debbit		
LD50 (Dermal): LD50 (Oral):	> 14000 mg/kg Rabbit > 10000 mg/kg Rat		
LC50 (Inhalation vapours):	> 21 mg/l/4h Rat		
SKIN CORROSION / IRRITATION			
Causes skin irritation			
SERIOUS EYE DAMAGE / IRRITATION			
Causes serious eye irritation			
RESPIRATORY OR SKIN SENSITISATION	N		
RESPIRATORY OR SKIN SENSITISATION	<u>v</u>		
Sensitising for the skin			
GERM CELL MUTAGENICITY			
Does not meet the classification criteria for	this hazard class		
Description of the state of the	ine nazara diase		
CARCINOGENICITY			
Does not meet the classification criteria for	this hazard class		
XYLENE (MIXTURE OF ISOMERS)			
Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".			
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment	of the carcinogenic potential".	
REPRODUCTIVE TOXICITY			
Does not meet the classification criteria for	this hazard class		
CTOT CINCLE EVECULES			
STOT - SINGLE EXPOSURE			
May cause respiratory irritation			
, , ,			
May cause drowsiness or dizziness			

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STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

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 have negative effects on acquatic environment.

12.1. Toxicity

Hydrocarbons, C10, aromatics, <1%

naphtalene

LC50 - for Fish > 2 mg/l/96h

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

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

Blocked aliphatic polyisocyanate based on

HDI

LC50 - for Fish > 100 mg/l/96h Danio rerio (OECD TG 203)
EC50 - for Crustacea > 100 mg/l/48h Daphnia magna (OECD TG 202)

EC50 - for Algae / Aquatic Plants 193 mg/l/72h Algae (Scenedesmus subspicatus) OECD TG 201

AROMATIC HYDROCARBONS, C9

LC50 - for Fish > 9,2 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea > 3,2 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 2,9 mg/l/72h Pseudokirchneriella subcapitata

TITANIUM DIOXIDE

LC50 - for Fish > 10000 mg/l/96h Cypridonon variegatus

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish 134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203

EC50 - for Crustacea > 500 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Selenastrum capricornutum OECD 201

Chronic NOEC for Fish 47,5 mg/l Oryzias latipes 14 gg OECD 204

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Chronic NOEC for Crustacea 100 mg/l Dapnia magna 21 gg OECD 202

2-BUTOXYETHANOL

LC50 - for Fish 1474 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 1550 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 1840 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Fish > 100 mg/l 21 d
Chronic NOEC for Crustacea 100 mg/l 21 d

N-BUTYL ACETATE

LC50 - for Fish 18 mg/l/96h Pimephales promelas EC50 - for Crustacea 44 mg/l/48h Daphnia Magna

EC10 for Algae / Aquatic Plants 674,7 mg/l/72h Desmodesmus subspicatus

Chronic NOEC for Crustacea 23 mg/l 21d/ Daphnia magna

DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE,

GLUTARATE, DIMETHYL SUCCINATE REACTION MASS

LC50 - for Fish 0,018 mg/l/96h 0,018 - 0,024 / (Pimephales promelas) (72h)

EC50 - for Crustacea 0,112 mg/l/48h 0,112 - 0,15/Daphnia Magna
EC50 - for Algae / Aquatic Plants > 85 mg/l/72h Pseudokirchneriella subcapitata

gamma-methacryloxy propyl trimethoxy

ilane

Chronic NOEC for Fish > 100 mg/l Brachydanio rerio (96h)
Chronic NOEC for Crustacea > 100 mg/l Daphnia magna (48h)

Chronic NOEC for Algae / Aquatic Plants > 100 mg/l Desmodesmus subspicatus (72h)

12.2. Persistence and degradability

Hydrocarbons, C10, aromatics, <1%

naphtalene

Solubility in water immiscibile in H2O mg/l

Rapidly degradable

Blocked aliphatic polyisocyanate based on

HDI

NOT rapidly degradable

AROMATIC HYDROCARBONS, C9

Rapidly degradable

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable OECD GI 301F 83% 10 d 2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable N-BUTYL ACETATE

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Solubility in water 5,3 mg/l

Rapidly degradable DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE,

REACTION MASS

30000 mg/l 26000 - 40500 mg/l Solubility in water

Rapidly degradable

gamma-methacryloxy propyl trimethoxy

Solubility in water Reagisce lentamente mg/l

12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

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

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2 **BCF** 100

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2,3 **BCF** 15,3

DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE,

REACTION MASS

Partition coefficient: n-octanol/water 1,4

12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: soil/water 1,7

N-BUTYL ACETATE

Partition coefficient: soil/water < 3

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

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environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

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

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1210

14.2. UN proper shipping name

ADR / RID: PRINTING INK IMDG: PRINTING INK PRINTING INK PRINTING INK

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



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Special provision: 163, 367

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IMDG: Marine Pollutant

IATA: NO

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

Pass.:

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30

Limited Quantities: 5 Tunnel restriction code: (D/E)

IMDG: EMS: F-E, S-D

Limited Quantities: 5

Р

IATA: Cargo:

Maximum quantity: 220

Packaging instructions:

L 366 Maximum Pack

quantity: 60 L

Packaging instructions:

Special provision: A3, A72, A192

2,

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

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

<u>Product</u>

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Flam. Liq. 3 Flammable liquid, category 3
Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

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. 1 Skin sensitization, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H226 Flammable liquid and vapour.

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

H332 Harmful if inhaled.

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.H317 May cause an allergic skin reaction.

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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.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008 DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 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 (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP) 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)

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- 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 / 08 / 09 / 11 / 12 / 14 / 15 / 16.