

### MB43.00.00 - BINDER FOR SB WIPING STAIN

Revision nr.3 Dated 31/01/2022

Printed on 22/12/2022 Page n. 1 / 19 Replaced revision:2 (Dated 28/12/2020)

# **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

MB43.00.00 Code:

Product name **BINDER FOR SB WIPING STAIN** 

5XC0-P0MP-E00R-0G0Q

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

Industrial **Professional** Consumer **VARNISHING PRODUCTS FOR DECORATION / COVERING WOOD MANUFACTURED** 

### 1.3. Details of the supplier of the safety data sheet

**ADLER SRL** Name

Via Calabria, 6 - Fraz. Osteria Grande Full address

District and Country 40024 **Castel San Pietro Terme** (BO)

Italy

+39 051 945107 Tel +39 051 946516 Fax

e-mail address of the competent person

responsible for the Safety Data Sheet sds@adleronline.it

1.4. Emergency telephone number

For urgent inquiries refer to For any requirement contact +39051945107 in working time.

### **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 2	H225	Highly flammable liquid and vapour.
Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
Acute toxicity, category 4	H332	Harmful if inhaled.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation

#### 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:

H225 Highly flammable liquid and vapour. H361d Suspected of damaging the unborn child.



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### SECTION 2. Hazards identification .../>>

H332 Harmful if inhaled.

Causes serious eye irritation. H319 H315 Causes skin irritation.

Precautionary statements:

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

P280 Wear protective gloves/ protective clothing / eye protection / face protection. P370+P378 In case of fire: Use FOAM, CO2, POWDER AND WATER-FOG to extinguish.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P201 Obtain special instructions before use. P233 Keep container tightly closed.

**TOLUENE** Contains:

Product not intended for uses provided for by Directive 2004/42/EC.

#### 2.3. Other hazards

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

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

### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

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

2-BUTOXYETHANOL

CAS 111-76-2  $42 \le x < 45$ Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 203-905-0 LD50 Oral: 1200 mg/kg, STA Inhalation vapours: 11 mg/l

INDEX 603-014-00-0 REACH Reg. 01-2119475108-36

**XYLENE** 

1330-20-7  $8.6 \le x < 10$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, CAS

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

**CLP Regulation: C** 215-535-7 STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l

EC **INDEX** 

REACH Reg. 01-2119488216-32

2-METHOXY-1-METHYLETHYL ACETATE

 $6,3 \le x < 7,6$ 108-65-6 Flam. Liq. 3 H226, STOT SE 3 H336 CAS

203-603-9 EC INDEX 607-195-00-7 REACH Reg. 01-2119475791-29

TOLUENE

108-88-3  $4.1 \le x < 4.3$ Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin CAS

Irrit. 2 H315, STOT SE 3 H336

EC 203-625-9 INDFX 601-021-00-3 REACH Reg. 01-2119471310-51 1-METHOXY-2-PROPANOL

Flam. Liq. 3 H226, STOT SE 3 H336 CAS 107-98-2  $4,1 \le x < 4,3$ 

FC 203-539-1 INDEX 603-064-00-3 REACH Reg. 01-2119457435-35

XYLENE (REACTIVE MIXTURE OF ETHYL-BENZENE, M-XYLENE AND P-XYLENE)

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, CAS  $3.4 \le x < 3.6$ 

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

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

mists/powders: 1,5 mg/l

**INDEX** 



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### SECTION 3. Composition/information on ingredients .../>>

REACH Reg. 01-2119555267-33-XXXX

ETHYLBENZENE

CAS 100-41-4 2,2  $\leq$  x < 2,3 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,

Aquatic Chronic 3 H412

EC 202-849-4 LC50 Inhalation vapours: 17,2 mg/l/4h

REACH Reg. 01-2119489370-35

PROPAN-2-OL

CAS 67-63-0 1,2 ≤ x < 1,3 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

EC 200-661-7 INDEX 603-117-00-0 REACH Reg. 01-2119457558-25

ISOBUTYL ACETATE

CAS 110-19-0  $0.45 \le x < 0.5$  Flam. Liq. 2 H225, EUH066, Classification note according to Annex VI to the

**CLP Regulation: C** 

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

EC 203-745-1 INDEX 607-026-00-7 REACH Reg. 01-2119488971-22

N-BUTYL ACETATE

CAS 123-86-4  $0,35 \le x < 0,4$ 

EC 204-658-1 INDEX 607-025-00-1 REACH Reg. 01-2119485493-29

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

### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

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

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

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

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

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

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

Information not available

### **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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

@EPY 11.1.2 - SDS 1004.14



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

### SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

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

### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

### 8.1. Control parameters

Regulatory References:

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 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των

HRV

ITA

LTU

LVA

NLD

**PRT** 

POL

ROU

SVN

**GBR** 

EU

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Hrvatska

Latvija

Nederland

Portugal

Polska

România

Slovenija

OEL EU

United Kingdom

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"»

Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)

Decreto Legislativo 9 Aprile 2008, n.81 Italia Lietuva

Jsakymas dėl lietuvos higienos normos hn 23:2011 "cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai" patvirtinimo

Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības

prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)

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 nateżeń czynników szkodliwych

dla zdrowia w środowisku pracy

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

modificarea și completarea hotărârii guvernului nr. 1.093/2006

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)

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

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

				2-BUTO	KYETHANOL			
Threshold Limit V	alue							
Type	Country	TWA/8h		STEL/15	min	Remarks / C	bservations	
		mg/m3	ppm	mg/m3	ppm			
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	
VLA	ESP	98	20	245	50	SKIN		
VLEP	FRA	49	10	246	50	SKIN		
TLV	GRC	120	25					
GVI/KGVI	HRV	98	20	246	50	SKIN		
VLEP	ITA	98	20	246	50	SKIN		
RD	LTU	50	10	100	20	SKIN		
RV	LVA	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		
MV	SVN	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	ct concentra	tion - PNEC						
Normal value in	fresh water						8,8	mg/l
Normal value in	marine wate	er					0,88	mg/l
Normal value fo	r fresh water	sediment					34,6	mg/kg
Normal value fo	r marine wat	er sediment					3,46	mg/kg
Normal value of	STP microo	rganisms					463	mg/l
Normal value fo	r the terrestri	ial compartm	ent				2,33	mg/kg



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				X	YLENE	
Threshold Limit	Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	221		442		SKIN
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	
GVI/KGVI	HRV	440	100	655	150	
VLEP	ITA	221	50	442	100	SKIN
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	ect concentr	ation - PNE				
Normal value i	in fresh water					0,327 mg/l
Normal value 1	for the terrest	rial compartn	nent			2,31 mg/kg

			2-ME	THOXY-1-MET	HYLETHY	L ACETATE
Threshold Limi	t Value					
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	275		550		SKIN
TLV	CZE	270		550		SKIN
AGW	DEU	270	50	270	50	
MAK	DEU	270	50	270	50	
VLA	ESP	275	50	550	100	SKIN
VLEP	FRA	275	50	550	100	SKIN
TLV	GRC	275	50	550	100	
VLEP	ITA	275	50	550	100	SKIN
RD	LTU	250	50	400	75	SKIN
RV	LVA	275	50	550	100	SKIN
VLE	PRT	275	50	550	100	SKIN
TLV	ROU	275	50	550	100	SKIN
MV	SVN	275	50	550	100	SKIN
WEL	GBR	274	50	548	100	
OEL	EU	275	50	550	100	SKIN

				то	LUENE	
Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	192	50	384	100	SKIN
TLV	CZE	192	50,112	384	100,224	SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	760	200	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
TLV	GRC	192	50	384	100	
GVI/KGVI	HRV	192	50	384	100	SKIN
VLEP	ITA	192	50			SKIN
RD	LTU	192	50	384	100	SKIN
RV	LVA	50	14	150	40	SKIN
TGG	NLD	150		384		
VLE	PRT	192	50	384	100	SKIN
NDS/NDSCh	POL	100		200		SKIN
TLV	ROU	192	50	384	100	SKIN
MV	SVN	192	50	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH			20			



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				1-METHOXY	/-2-PROPAN	OL			
nreshold Limit \	/alue								
Type	Country	TWA/8h		STEL/15	min	Remarks / 0	Observations		
	-	mg/m3	ppm	mg/m3	ppm				
TLV	BGR	375	100	568	150	SKIN			
TLV	CZE	270	72,09	550	146,85	SKIN			
AGW	DEU	370	100	740	200				
MAK	DEU	370	100	740	200				
VLA	ESP	375	100	568	150	SKIN			
VLEP	FRA	188	50	375	100	SKIN			
TLV	GRC	360	100	1080	300				
GVI/KGVI	HRV	375	100	568	150				
VLEP	ITA	375	100	568	150	SKIN			
RD	LTU	190	50	300	75	SKIN			
RV	LVA	375	100	568	150	SKIN			
TGG	NLD	375		563		SKIN			
VLE	PRT	375	100	568	150				
NDS/NDSCh	POL	180		360		SKIN			
TLV	ROU	375	100	568	150	SKIN			
MV	SVN	375	100	568	150	SKIN			
WEL	GBR	375	100	560	150	SKIN			
OEL	EU	375	100	568	150	SKIN			
TLV-ACGIH		184	50	368	100				
redicted no-effe	ct concentra	ation - PNE	C						
Normal value in	fresh water						10	mg/l	
Normal value in	n marine wate	er					1	mg/l	
Normal value for	or fresh water	sediment					100	mg/l	
Normal value for	or marine wat	er sediment					5,2	mg/kg	
Normal value for	or the terrestr	ial compartr	nent				5,49	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consi	umers			Effects on wo	rkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral					3,3 mg/kg				•
Inhalation					43,9 mg/m3	553,5 mg/m3			369 mg/m3
Skin					18,1 mg/kg				50,6 mg/kg

	VVI ENE	/DEACTIVE MIX	TUDE OF ETH	VI DENZENE I	M VVI ENE A	ND D VVI ENE			
		(REACTIVE MIX	TURE OF ETH	ITL-BENZENE, I	WI-XYLENE A	NU P-X (LENE)			
Predicted no-effect co		- PNEC							
Normal value in fresh	n water					0,25	mg/l		
Normal value in mari	ne water					0,25	mg/l		
Normal value for mar	ine water se	14,33	mg/kg						
Normal value for the terrestrial compartment 2,41 mg/kg									
Health - Derived no-effect level - DNEL / DMEL									
	Effects o	n consumers			Effects on w	orkers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic	
Oral		•	VND	12,5		•		•	
				mg/kg/bw/d					
Inhalation	VND	260	VND	65,3	VND	442	VND	221	
		mg/m3		mg/m3		mg/m3		mg/m3	
Skin		-	VND	1872			VND	3182	
				mg/kg/bw/d				mg/kg/bw/	
								d	

# ADLER

WEL

OEL

TLV-ACGIH

GBR

ΕU

441

442

87

100

100

20

552

884

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				ETHYL	BENZENE		
Threshold Limit V	'alue						
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	435		545		SKIN	
TLV	CZE	200	45,4	500	113,5	SKIN	
AGW	DEU	88	20	176	40	SKIN	
MAK	DEU	88	20	176	40	SKIN	
VLA	ESP	441	100	884	200	SKIN	
VLEP	FRA	88,4	20	442	100	SKIN	
TLV	GRC	435	100	545	125		
GVI/KGVI	HRV	442	100	884	200	SKIN	
VLEP	ITA	442	100	884	200	SKIN	
RD	LTU	442	100	884	200	SKIN	
RV	LVA	442	100	884	200	SKIN	
TGG	NLD	215		430		SKIN	
VLE	PRT	442	100	884	200	SKIN	
NDS/NDSCh	POL	200		400		SKIN	
TLV	ROU	442	100	884	200	SKIN	
MV	SVN	442	100	884	200	SKIN	

125

200

SKIN SKIN

				PROF	PAN-2-OL				
hreshold Limit \									
Туре	Country	TWA/8h		STEL/15		Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	980		1225					
TLV	CZE	500	200	1000	400				
AGW	DEU	500	200	1000	400				
MAK	DEU	500	200	1000	400				
VLA	ESP	500	200	1000	400				
VLEP	FRA			980	400				
TLV	GRC	980	400	1225	500				
GVI/KGVI	HRV	999	400	1250	500				
RD	LTU	350	150	600	250				
RV	LVA	350		600					
TGG	NLD	650							
NDS/NDSCh	POL	900		1200		SKIN			
TLV	ROU	200	81	500	203				
MV	SVN	500	200	2000	800				
WEL	GBR	999	400	1250	500				
TLV-ACGIH		492	200	983	400				
redicted no-effe	ct concentra	ation - PNE	C						
Normal value in	fresh water						140,9	mg/l	
Normal value in	marine water	er					140,9	mg/l	
Normal value for	or fresh water	r sediment					552	mg/kg	
Normal value for	or marine wa	ter sediment					552	mg/kg	
Normal value for	or water, inte	mittent rele	ase				140,9	mg/l	
Normal value of	f STP microc	rganisms					2251	mg/l	
Normal value for	or the food ch	ain (second	ary poisoni	ng)			160	mg/kg	
Normal value for	or the terrestr	ial compartr	nent				28	mg/kg	
lealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consi	ımers			Effects on w	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	temic	local	systemic	local	systemic	local	systemic
Oral		,			26		,		,
					mg/kg				
Inhalation					89				500
					mg/m3				mg/m3
Skin					319				888
- ****					mg/kg				mg/kg



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

				ISOBUTY	L ACETATE		
Threshold Limit V	'alue						
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	CZE	950	196,65	1200	248,4		
AGW	DEU	300	62	600 (C)	124 (C)		
VLA	ESP	724	150				
VLEP	FRA	710	150	940	200		
TLV	GRC	950	200	950	200		
GVI/KGVI	HRV	241	50	723	150		
VLEP	ITA	241	50	723	150		
RD	LTU	241	50	723	150		
TGG	NLD	480					
VLE	PRT	241	50	723	150		
NDS/NDSCh	POL	240		720			
TLV	ROU	241	50	723	150		
MV	SVN	300	62	600	124		
WEL	GBR	724	150	903	187		
OEL	EU	241	50	723	150		
TLV-ACGIH			50		150		

				N-BUTY	L ACETATE	
Threshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15r	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	710		950		
TLV	CZE	950	196,65	1200	248,4	
AGW	DEU	300	62	600 (C)	124 (C)	
VLA	ESP	241	50	724	150	
VLEP	FRA	710	150	940	200	
TLV	GRC	710	150	950	200	
GVI/KGVI	HRV	241	50	723	150	
VLEP	ITA	241	50	723	150	
RD	LTU	241	50	723	150	
RV	LVA	200				
TGG	NLD	150				
VLE	PRT	241	50	723	150	
NDS/NDSCh	POL	240		720		
TLV	ROU	241	50	723	150	
MV	SVN	300	62	600	124	
WEL	GBR	724	150	966	200	
OEL	EU	241	50	723	150	
TLV-ACGIH			50		150	

### Legend:

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

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

### 8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

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

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

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

SKIN PROTECTION

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

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).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a



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

type AX filter, whose limit of use will be defined by the manufacturer (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.

### **SECTION 9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Value **Properties** Appearance liquid Colour colourless Odour characteristic Melting point / freezing point Not available Initial boiling point 35 °C Not available Flammability Lower explosive limit Not available Upper explosive limit Not available Flash point Not available Auto-ignition temperature Hq Not available

Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent

mixture)

Information

Kinematic viscosity >20,5 mm2/s T=40°C

Solubility
Partition coefficient: n-octanol/water
Vapour pressure
Density and/or relative density
Particle characteristics
Not available
Not available
Not available
Not available
Not available

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F) 23,95 %

VOC (Directive 2010/75/EU) 76,15 % - 731,01 g/litre VOC (volatile carbon) 51,43 % - 493,68 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-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.

### TOLUENE

Avoid exposure to: light.

1-METHOXY-2-PROPANOL

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and disolves in water and in organic solvents. With air it may slowly form explosive peroxides.



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

### ISOBUTYL ACETATE

Decomposes under the effect of heat. Attacks various types of plastic materials.

#### N-BUTYL ACETATE

Decomposes on contact with: water.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

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

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

#### **XYLENE**

Stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

#### 2-METHOXY-1-METHYLETHYL ACETATE

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

Risk of explosion on contact with: fuming sulphuric acid.nitric acid.silver perchlorate.nitrogen dioxide.non-metal halogenates.acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

### 1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents, strong acids.

#### FTHYI BENZENE

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

### ISOBUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react violently with: alkaline hydroxides, potassium tert-butoxide. 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

### 10.4. Conditions to avoid

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

#### 2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

### 1-METHOXY-2-PROPANOL

Avoid exposure to: air.

### ISOBUTYL ACETATE

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.

#### 1-METHOXY-2-PROPANOL

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

### ISOBUTYL ACETATE

Incompatible with: strong oxidants, nitrates, strong acids, strong bases.

### N-BUTYL ACETATE

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

### 10.6. Hazardous decomposition products

### 2-BUTOXYETHANOL

May develop: hydrogen.

#### **ETHYLBENZENE**

May develop: methane, styrene, hydrogen, ethane.



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### **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

#### XYI FNF

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

#### 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. WORKERS: inhalation; contact with the skin. 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).

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

#### **TOLUENE**

WORKERS: inhalation; contact with the skin.

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

### 1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

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

### **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.

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

### **TOLUENE**

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### 1-METHOXY-2-PROPANOL

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

#### **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.

### Interactive effects

#### **TOLUENE**

Certain drugs and other industrial products can interfere with the metabolism of the toluene.



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#### **SECTION 11. Toxicological information** ... / >>

#### 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 - mists / powders) of the mixture: Acute Tox. 4 ATE (Inhalation - vapours) of the mixture: 18,31 mg/l ATE (Inhalation - gas) of the mixture: Acute Tox. 4 ATE (Oral) of the mixture: >2000 mg/kg ATE (Dermal) of the mixture: >2000 mg/kg

2-BUTOXYETHANOL

LD50 (Oral): 1200 mg/kg Guinea pig LC50 (Inhalation vapours): 2,2 mg/l/4h Rat

11 mg/l estimate from table 3.1.2 of Annex I of the CLP STA (Inhalation vapours):

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

**XYLENE** 

LD50 (Dermal): 4350 mg/kg Rabbit

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

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

LD50 (Oral): 3523 mg/kg Rat LC50 (Inhalation vapours): 26 mg/l/4h Rat

STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

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

2-METHOXY-1-METHYLETHYL ACETATE

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

**TOLUENE** 

LD50 (Dermal): 12124 mg/kg Rabbit LD50 (Oral): 5580 mg/kg Rat LC50 (Inhalation vapours): 28,1 mg/l/4h Rat

1-METHOXY-2-PROPANOL

LD50 (Dermal): 13000 mg/kg Rabbit LD50 (Oral): 5300 mg/kg Rat 54,6 mg/l/4h Rat LC50 (Inhalation vapours):

XYLENE (REACTIVE MIXTURE OF ETHYL-BENZENE, M-XYLENE AND P-XYLENE)

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)

STA (Inhalation mists/powders): 1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP

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

STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

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

**ETHYLBENZENE** 

15354 mg/kg Rabbit LD50 (Dermal): LD50 (Oral): 3500 mg/kg Rat LC50 (Inhalation vapours): 17,2 mg/l/4h Rat

PROPAN-2-OL

LD50 (Dermal): 12800 mg/kg Rat LD50 (Oral): 4710 mg/kg Rat LC50 (Inhalation vapours): 72,6 mg/l/4h Rat

N-BUTYL ACETATE

> 5000 mg/kg Rabbit LD50 (Dermal): > 6400 mg/kg Rat LD50 (Oral): LC50 (Inhalation vapours): 21,1 mg/l/4h Rat



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### SECTION 11. Toxicological information .../>>

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

**TOLUENE** 

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (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

Suspected of damaging the unborn child

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE



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Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: >20,5 mm2/s T=40°C

#### 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**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 12.1. Toxicity

XYLENE (REACTIVE MIXTURE OF ETHYL-BENZENE, M-XYLENE AND P-XYLENE) 2,6 mg/l/96h per il p-xilene LC50 - for Fish LC10 for Fish > 1,3 mg/l per mix-xilene

### 12.2. Persistence and degradability

**TOLUENE** 

100 - 1000 mg/l Solubility in water

Rapidly degradable

2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

1-METHOXY-2-PROPANOL

1000 - 10000 mg/l Solubility in water

Rapidly degradable

PROPAN-2-OL Rapidly degradable

N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l

ISOBUTYL ACETATE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

XYLENE (REACTIVE MIXTURE OF ETHYL-BENZENE, M-XYLENE AND P-XYLENE)

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



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### SECTION 12. Ecological information .../>>

IOLULINE	TOL	.UE	NE
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Partition coefficient: n-octanol/water 2,73

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water < 1

PROPAN-2-OL

Partition coefficient: n-octanol/water 0,05

N-BUTYL ACETATE

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

ISOBUTYL ACETATE

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

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

#### 12.4. Mobility in soil

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 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: 1263

### 14.2. UN proper shipping name

ADR / RID: Paint IMDG: Paint IATA: Paint



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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



Limited Quantities: 5 L

Limited Quantities: 5 L

### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID: IMDG: NO IATA: NO

### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33

Special provision: 640D

EMS: F-E, <u>S-E</u> IMDG:

IATA:

Cargo: Maximum quantity: 60 L Pass.: Maximum quantity: 5 L

Special provision:

Tunnel restriction code: D/E

Packaging instructions: 364 Packaging instructions: 353

### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

### **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU:

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

P5c

Product

Point 3 - 40

Contained substance

Point 75

Point 48 **TOLUENE** 

REACH Reg.: 01-2119471310-51

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

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

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:



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### SECTION 15. Regulatory information ..../>>

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. 2 Flammable liquid, category 2
Repr. 2 Reproductive toxicity, category 2
Acute Tox. 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
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour.
H361d Suspected of damaging the unborn child.

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.H336 May cause drowsiness or dizziness.

**H412** Harmful to aquatic life with long lasting effects.

### LEGEND:

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



# **ADLER SRL**

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### SECTION 16. Other information .../>>

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

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

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

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

Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

01/02/03/08/09/10/11/12/15/16.