

Revision nr.10 Dated 19/06/2023 Printed on 19/06/2023 Page n. 1 / 19 Replaced revision:9 (Dated 16/02/2022) ΕN

# Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 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 Code. 014 Product name **BLACK PRIMER** 1.2. Relevant identified uses of the substance or mixture and uses advised against SOLVENT-BASED BITUMINOUS PRIMER. Intended use 1.3. Details of the supplier of the safety data sheet NORD RESINE S.p.A. Name Via Fornace Vecchia, 79 Full address District and Country 31058 Susegana (TV) Italia +39 0438-437511 Tel. Fax +39 0438-435155 e-mail address of the competent person responsible for the Safety Data Sheet annabreda@nordresine.com NORD RESINE S.p.A. Supplier: 1.4. Emergency telephone number For urgent inquiries refer to +39 0438 437511

## **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 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:		
Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms:



Signal words:

Danger



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

Hazard statements: H225 Highly flammable liquid and vapour. H361d Suspected of damaging the unborn child. H304 May be fatal if swallowed and enters airways. H373 May cause damage to organs through prolonged or repeated exposure. Causes skin irritation. H315 H336 May cause drowsiness or dizziness. H412 Harmful 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. P260 Do not breathe dust / fume / gas / mist / vapours / spray. P331 Do NOT induce vomiting. P280 Wear protective gloves/ protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor. P370+P378 In case of fire: use carbon anhydride, foam, nebulized water to extinguish. Contains: TOLUENE N-BUTYL ACETATE METHYL ACETATE Reaction mass of ethylbenzene and m-xylene and p-xylene VOC (Directive 2004/42/EC) : Binding primers.

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750,00

#### 2.3. Other hazards

Limit value:

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

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

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

VOC given in g/litre of product in a ready-to-use condition :

#### 3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
TOLUENE			
INDEX	601-021-00-3	35 ≤ x < 50	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412
EC	203-625-9		
CAS	108-88-3		
REACH Reg.	01-2119471310-51		
METHYL ACE	TATE		
INDEX	607-021-00-X	1 ≤ x < 4	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	201-185-2		
CAS	79-20-9		
REACH Reg.	01-2119459211-47		
Reaction mas	s of ethylbenzene a	nd m-xylene and p-xyl	ene
INDEX		1 ≤ x < 4	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C
EC	905-562-9		STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l
CAS			
REACH Reg.	01-2119555267-33		
N-BUTYL AC	ETATE		
INDEX	607-025-00-1	1≤x< 4	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC	204-658-1		
CAS	123-86-4		
REACH Reg.	01-2119485493-29		



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

METHANOL			
INDEX	603-001-00-X	0 ≤ x < 1	Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331,
			STOT SE 1 H370
EC	200-659-6		STOT SE 2 H371: ≥ 3%
CAS	67-56-1		STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation vapours: 3 mg/l
REACH Reg.	01-2119433307-44	4	
ETHYL ACET	ATE		
INDEX	607-022-00-5	0 ≤ x < 1	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	205-500-4		
CAS	141-78-6		
REACH Reg.	01-2119475103-46	5	
ETHYL METH	YL KETONE		
INDEX	606-002-00-3	0 ≤ x < 1	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	201-159-0		
CAS	78-93-3		
REACH Reg.	01-2119457290-43	3	
ACETONE			
INDEX	606-001-00-8	0 ≤ x < 1	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	200-662-2		
CAS	67-64-1		
REACH Reg.	01-2119471330-49	9	
2-METHOXY-	I-METHYLETHYL A	CETATE	
INDEX	607-195-00-7	0 ≤ x < 1	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-603-9		
CAS	108-65-6		
REACH Reg.	01-2119475791-29	9	

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



# NORD RESINE S.p.A.

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# 014 - BLACK PRIMER

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

## **SECTION 6.** Accidental release measures

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

Block the leakage if there is no hazard.

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

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.

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

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

#### 7.3. Specific end use(s)

Information not available



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

#### 8.1. Control parameters

Regulatory references:

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 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
	N /	την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3,
NLD	Hodonana	eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os
		agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os
	Dalaka	riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych
		dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea si completarea hotărârii guvernului nr. 1.093/2006
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
	,	(Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

				то	LUENE	
Threshold Limit V	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
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	
AK	HUN	190		380		SKIN
GVI/KGVI	HRV	192	50	384	100	SKIN
VLEP	ITA	192	50			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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				METHYL	ACETATE	
Threshold Limit	/alue					
Туре	Country	TWA/8h		STEL/15m	nin	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	600	195	800	260	
AGW	DEU	620	200	1240 (C)	400 (C)	
MAK	DEU	310	100	1240	400	
VLA	ESP	616	200	770	250	
VLEP	FRA	610	200	760	250	SKIN
TLV	GRC	610	200	760	250	
AK	HUN	310		1240		SKIN
GVI/KGVI	HRV	616	200	770	250	
TGG	NLD	100				
NDS/NDSCh	POL	250		600		
TLV	ROU	200	63	600	188	
MV	SVN	610	200	1240	400	
WEL	GBR	616	200	770	250	
TLV-ACGIH		606	200	757	250	

Reaction mass of ethylbenzene and m-xylene and p-xylene									
Threshold Limit	Value								
Туре	Country	TWA/8h		STEL/15	min	Remarks / C	bservations		
		mg/m3	ppm	mg/m3	ppm				
VLEP	ITA	221	50	442	100	SKIN			
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				
Predicted no-eff	ect concentra	ation - PNE	C						
Normal value	in fresh water						0,25	mg/l	
Normal value	in marine wate	er					0,25	mg/l	
Normal value	Normal value for marine water sediment 14,33 mg/kg								
Normal value	Normal value for the terrestrial compartment 2,41 mg/kg								
Normal value	for the terresti	riai compartr	nent				2,41	mg/ĸg	

N BUTYL ACETATE

				N-BUTY	LACETATE	
Threshold Limit \	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	950	196,65	1200	248,4	
AGW	DEU	300	62	600 (C)	124 (C)	
VLA	ESP	241	50	724	150	
VLEP	FRA	710	150	940	200	
TLV	GRC	710	150	950	200	
AK	HUN	241		723		
GVI/KGVI	HRV	241	50	723	150	
VLEP	ITA	241	50	723	150	
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	



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	METHANOL									
Threshold Limit \	/alue									
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	CZE	250	187,75	1000	751	SKIN				
AGW	DEU	270	200	1080	800	SKIN				
MAK	DEU	130	100	260	200	SKIN				
VLA	ESP	266	200			SKIN				
VLEP	FRA	260	200	1300	1000	SKIN 11				
TLV	GRC	260	200	325	250					
AK	HUN	260				SKIN				
GVI/KGVI	HRV	260	200			SKIN				
VLEP	ITA	260	200			SKIN				
TGG	NLD	133				SKIN				
VLE	PRT	260	200			SKIN				
NDS/NDSCh	POL	100		300		SKIN				
TLV	ROU	260	200			SKIN				
MV	SVN	260	200	1040	800	SKIN				
WEL	GBR	266	200	333	250	SKIN				
OEL	EU	260	200							
TLV-ACGIH		262	200	328	250	SKIN				

				ETHYL	ACETATE	
Threshold Limit \	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	700	191,1	900	245,7	
AGW	DEU	730	200	1460	400	
MAK	DEU	750	200	1500	400	
VLA	ESP	734	200	1468	400	
VLEP	FRA	734	200	1468	400	
TLV	GRC	734	200	1468	400	
AK	HUN	734		1468		
GVI/KGVI	HRV	734	200	1468	400	
VLEP	ITA	734	200	1468	400	
TGG	NLD	734		1468		
VLE	PRT	734	200	1468	400	
NDS/NDSCh	POL	734		1468		
TLV	ROU	734	200	1468	400	
MV	SVN	734	200	1468	400	
WEL	GBR	734	200	1468	400	
OEL	EU	734	200	1468	400	
TLV-ACGIH		1441	400			
Predicted no-effe		ation - PNE	2			
Normal value ir	n fresh water					0,26 mg/l
Normal value ir	n marine wate	er				0,026 mg/l
Normal value for	or fresh water	r sediment				1,25 mg/kg
Normal value for						0,125 mg/kg
Normal value for			ase			1,65 mg/l
Normal value o						650 mg/l
Normal value for				)		200 mg/kg
Normal value for	or the terrestr	ial compartn	nent			0,24 mg/kg

EN



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				ETHYL ME	THYL KETONE	E			
hreshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	600	200,4	900	300,6				
AGW	DEU	600	200	600	200	SKIN			
MAK	DEU	600	200	600	200	SKIN			
VLA	ESP	600	200	900	300				
VLEP	FRA	600	200	900	300	SKIN			
TLV	GRC	600	200	900	300				
AK	HUN	600		900		SKIN			
GVI/KGVI	HRV	600	200	900	300				
VLEP	ITA	600	200	900	300				
TGG	NLD	590		500		SKIN			
VLE	PRT	600	200	900	300				
NDS/NDSCh	POL	450		900		SKIN			
TLV	ROU	600	200	900	300				
MV	SVN	600	200	900	300	SKIN			
WEL	GBR	600	200	899	300	SKIN			
OEL	EU	600	200	900	300				
TLV-ACGIH		590	200	885	300				
Predicted no-effe	ct concentra	ation - PNE	С						
Normal value in	n fresh water						55,8	mg/l	
Normal value in	n marine wate	er					55,8	mg/l	
Normal value for	or fresh wate	r sediment					284,74	mg/kg	
Normal value of							709	mg/l	
Normal value for				ng)			100	mg/kg	
Normal value for	or the terrest	ial comparti	nent				22,5	mg/kg	
lealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consi	umers			Effects on w	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	stemic	local	systemic	local	systemic	local	systemic
Oral					31 mg/kg bw/d				
Inhalation					106				600
					mg/m3				mg/m3
Skin					412				1161
					mg/kg bw/d				mg/kg
									bw/d

@EPY 11.5.2 - SDS 1004.14



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

				ACE	ETONE			
Threshold Limit V	/alue							
Туре	Country	TWA/8h		STEL/15n	nin	Remarks / Obs	ervations	
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	800	331,2	1500	621			
AGW	DEU	1200	500	2400 (C)	1000 (C)			
MAK	DEU	1200	500	2400	1000			
VLA	ESP	1210	500					
VLEP	FRA	1210	500	2420	1000			
TLV	GRC	1780		3560				
AK	HUN	1210						
GVI/KGVI	HRV	1210	500					
VLEP	ITA	1210	500					
TGG	NLD	1210		2420				
VLE	PRT	1210	500					
NDS/NDSCh	POL	600		1800				
TLV	ROU	1210	500					
MV	SVN	1210	500	2420	1000			
WEL	GBR	1210	500	3620	1500			
OEL	EU	1210	500					
TLV-ACGIH			250		500			
Predicted no-effe		ation - PNEC						
Normal value in							10,6	mg/l
Normal value in	marine wate	er					1,06	mg/l
Normal value for	or fresh water	sediment					30,4	mg/kg
Normal value for	or marine wat	er sediment					3,04	mg/kg
Normal value for			se				21	mg/l
Normal value of							100	mg/l
Normal value for	or the terrestr	ial compartme	ent				29,5	mg/kg



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

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

Type Cou TLV CZE AGW DEU	mg/m3	ppm	STEL/15	min	Remarks / C	Observations		
	270							
			mg/m3	ppm				
AGW DEU		49,14	550	100,1	SKIN			
	J 270	50	270	50				
MAK DEU	J 270	50	270	50				
VLA ESF	275	50	550	100	SKIN			
VLEP FRA	. 275	50	550	100	SKIN			
TLV GR	C 275	50	550	100				
AK HUI	N 275		550					
GVI/KGVI HRV	/ 275	50	550	100	SKIN			
VLEP ITA	275	50	550	100	SKIN			
TGG NLE								
VLE PR	- 275	50	550	100	SKIN			
NDS/NDSCh POI	260		520		SKIN			
TLV RO		50	550	100	SKIN			
MV SVM	275	50	550	100	SKIN			
WEL GBI		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 marir	ie water					0,0635	mg/l	
Normal value for fres	n water sedimer	ıt				3,29	mg/kg	
Normal value for mar	ne water sedim	ent				0,329	mg/kg	
Normal value for wate	er, intermittent re	elease				6,35	mg/l	
Normal value of STP	microorganisms	1				100	mg/l	
Normal value for the	errestrial compa	artment				0,29	mg/kg	
Health - Derived no-effe	ect level - DNEI	/ DMEL						
	Effects on co	nsumers			Effects on wo	rkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				1,67 mg/kg/d		-		-
Inhalation				33				275
				mg/m3				mg/m3
Skin				54,8				153,5
				mg/kg/d				mg/kg/d

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

#### 8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

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

HAND PROTECTION

Protect hands with category III work gloves.

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

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

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

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

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

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

	•	•	
Properties		Value	Information
Appearance		liquid	
Colour		black	
Odour		characteristic of solvent	
Melting point / freezing point		not available	
Initial boiling point	>	35 °C	
Flammability		not available	
Lower explosive limit		not available	
Upper explosive limit		not available	
Flash point	<	23 °C	
Auto-ignition temperature		not available	
Decomposition temperature		not available	
pH		not available	
Kinematic viscosity		not available	
Solubility		immiscible with water	
Partition coefficient: n-octanol/water		not available	
Vapour pressure		not available	
Density and/or relative density		0,94	
Relative vapour density		not available	
Particle characteristics		not applicable	
9.2. Other information			
9.2. Other information			
9.2.1. Information with regard to physical	hazard cla	ISSES	
Information not available			
9.2.2. Other safety characteristics			
VOC (Directive 2004/42/EC) :		51,79 % - 486,82	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.

TOLUENE Avoid exposure to: light. N-BUTYL ACETATE Decomposes on contact with: water. ETHYL ACETATE Decomposes slowly into acetic acid and ethanol under the effect of light, air and water. ETHYL METHYL KETONE Reacts with: light metals,strong oxidants.Attacks various types of plastic materials.Decomposes under the effect of heat. ACETONE Decomposes under the effect of heat. 2-METHOXY-1-METHYLETHYL ACETATE Stable in normal conditions of use and storage.



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

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

#### 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.

#### TOLUENE

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.

#### 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.

#### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising

agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

#### ETHYL METHYL KETONE

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

#### ACETONE

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline hydroxides.bromine.bromoform.isoprene.sodium.sulphur dioxide.chromium trioxide.chromyl chloride.nitric

acid, chloroform, peroxymonosulphuric acid, phosphoryl oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

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

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

#### 10.4. Conditions to avoid

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

#### N-BUTYL ACETATE

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

#### ETHYL ACETATE

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

ETHYL METHYL KETONE

Avoid exposure to: sources of heat.

ACETONE

Avoid exposure to: sources of heat, naked flames.

#### 10.5. Incompatible materials

#### N-BUTYL ACETATE

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

#### ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,chlorosulphuric acid.

## ETHYL METHYL KETONE

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

#### ACETONE

Incompatible with: acids,oxidising substances.

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

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

#### 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.

#### ACETONE

May develop: ketenes,irritant substances.

#### **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.



ΕN

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

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

#### 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.

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

#### METHANOL

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

2-METHOXY-1-METHYLETHYL 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.

#### 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.

#### METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

#### 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).

# Interactive effects

#### TOLUENE

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

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

TOLUENE	
LD50 (Dermal):	
LD50 (Oral):	
LC50 (Inhalation vapours):	

12124 mg/kg Rabbit 5580 mg/kg Rat 28,1 mg/l/4h Rat



SECTION 11. Toxicological information ... />>

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LD50 (Dermal): STA (Dermal): LD50 (Oral): LC50 (Inhalation vapours): STA (Inhalation vapours): N-BUTYL ACETATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): METHANOL STA (Dermal): STA (Oral): LC50 (Inhalation vapours): STA (Inhalation vapours):	12126 mg/kg Rabbit 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) 3523 mg/l Rat 27,124 mg/l/4h Rat 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) > 5000 mg/kg Rabbit > 6400 mg/kg Rat 21,1 mg/l/4h Rat 300 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) 100 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) > 87,6 mg/l/4h Rat
LD50 (Oral): LC50 (Inhalation vapours): STA (Inhalation vapours): N-BUTYL ACETATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): METHANOL STA (Dermal): STA (Oral): LC50 (Inhalation vapours):	<ul> <li>(figure used for calculation of the acute toxicity estimate of the mixture) 3523 mg/l Rat 27,124 mg/l/4h Rat 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)</li> <li>&gt; 5000 mg/kg Rabbit</li> <li>&gt; 6400 mg/kg Rat 21,1 mg/l/4h Rat</li> <li>300 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) 100 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) 100 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) 100 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)</li> </ul>
LC50 (Inhalation vapours): STA (Inhalation vapours): N-BUTYL ACETATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): METHANOL STA (Dermal): STA (Oral): LC50 (Inhalation vapours):	<ul> <li>27,124 mg/l/4h Rat</li> <li>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)</li> <li>&gt; 5000 mg/kg Rabbit</li> <li>&gt; 6400 mg/kg Rat</li> <li>21,1 mg/l/4h Rat</li> <li>300 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)</li> <li>100 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)</li> <li>100 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)</li> </ul>
STA (Inhalation vapours): N-BUTYL ACETATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): METHANOL STA (Dermal): STA (Oral): LC50 (Inhalation vapours):	<ul> <li>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)</li> <li>&gt; 5000 mg/kg Rabbit</li> <li>&gt; 6400 mg/kg Rat 21,1 mg/l/4h Rat</li> <li>300 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) 100 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) 100 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)</li> </ul>
N-BUTYL ACETATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): METHANOL STA (Dermal): STA (Oral): LC50 (Inhalation vapours):	<ul> <li>(figure used for calculation of the acute toxicity estimate of the mixture)</li> <li>&gt; 5000 mg/kg Rabbit</li> <li>&gt; 6400 mg/kg Rat</li> <li>21,1 mg/l/4h Rat</li> <li>300 mg/kg estimate from table 3.1.2 of Annex I of the CLP</li> <li>(figure used for calculation of the acute toxicity estimate of the mixture)</li> <li>100 mg/kg estimate from table 3.1.2 of Annex I of the CLP</li> <li>(figure used for calculation of the acute toxicity estimate of the mixture)</li> <li>100 mg/kg estimate from table 3.1.2 of Annex I of the CLP</li> <li>(figure used for calculation of the acute toxicity estimate of the mixture)</li> </ul>
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): METHANOL STA (Dermal): STA (Oral): LC50 (Inhalation vapours):	<ul> <li>&gt; 5000 mg/kg Rabbit</li> <li>&gt; 6400 mg/kg Rat</li> <li>21,1 mg/l/4h Rat</li> <li>300 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) 100 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) 100 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)</li> </ul>
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): METHANOL STA (Dermal): STA (Oral): LC50 (Inhalation vapours):	<ul> <li>&gt; 6400 mg/kg Rat</li> <li>21,1 mg/l/4h Rat</li> <li>300 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)</li> <li>100 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)</li> </ul>
LD50 (Oral): LC50 (Inhalation vapours): METHANOL STA (Dermal): STA (Oral): LC50 (Inhalation vapours):	<ul> <li>&gt; 6400 mg/kg Rat</li> <li>21,1 mg/l/4h Rat</li> <li>300 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)</li> <li>100 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)</li> </ul>
LD50 (Oral): LC50 (Inhalation vapours): METHANOL STA (Dermal): STA (Oral): LC50 (Inhalation vapours):	21,1 mg/l/4h Rat 300 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) 100 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)
LC50 (Inhalation vapours): METHANOL STA (Dermal): STA (Oral): LC50 (Inhalation vapours):	21,1 mg/l/4h Rat 300 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) 100 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 (Dermal): STA (Oral): LC50 (Inhalation vapours):	(figure used for calculation of the acute toxicity estimate of the mixture) 100 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 (Oral): LC50 (Inhalation vapours):	(figure used for calculation of the acute toxicity estimate of the mixture) 100 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)
LC50 (Inhalation vapours):	100 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)
LC50 (Inhalation vapours):	(figure used for calculation of the acute toxicity estimate of the mixture)
	> 87 6 mg/l/4h Rat
STA (Inhalation vapours):	
	3 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)
ETHYL METHYL KETONE	
LD50 (Dermal):	6480 mg/kg Rabbit
LD50 (Oral):	2737 mg/kg Rat
LC50 (Inhalation vapours):	23,5 mg/l/8h Rat
2-METHOXY-1-METHYLETHYL ACETATE	
LD50 (Dermal):	> 5000 mg/kg Rat
LD50 (Oral):	8530 mg/kg Rat
N CORROSION / IRRITATION	
ises skin irritation	

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

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, 1999). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

May cause damage to organs



ΕN

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

## 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 the aquatic organisms. In the long term, it have negative effects on aquatic environment.

#### 12.1. Toxicity

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

#### 12.2. Persistence and degradability

2-METHOXY-1-METHYLETHYL ACETATE Solubility in water Rapidly degradable	> 10000 mg/l
TOLUENE Solubility in water Rapidly degradable	100 - 1000 mg/l
METHANOL Solubility in water Rapidly degradable	1000 - 10000 mg/l
ACETONE Rapidly degradable	
ETHYL METHYL KETONE Solubility in water Rapidly degradable	> 10000 mg/l
METHYL ACETATE Solubility in water Rapidly degradable	243500 mg/l
ETHYL ACETATE Solubility in water Rapidly degradable	> 10000 mg/l
N-BUTYL ACETATE Solubility in water	1000 - 10000 mg/l
Reaction mass of ethylbenzene and m-xylene and p-xyle Rapidly degradable	ne
12.3. Bioaccumulative potential	
2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water	1,2
TOLUENE Partition coefficient: n-octanol/water BCF	2,73 90
METHANOL Partition coefficient: n-octanol/water BCF	-0,77 0,2



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

	ACETONE Partition coefficient: n-octanol/water BCF	-0,23 3
	ETHYL METHYL KETONE Partition coefficient: n-octanol/water	0,3
	METHYL ACETATE Partition coefficient: n-octanol/water	0,18
	ETHYL ACETATE Partition coefficient: n-octanol/water BCF	0,68 30
	N-BUTYL ACETATE Partition coefficient: n-octanol/water BCF	2,3 15,3
	Reaction mass of ethylbenzene and m-xylene and p-xylen BCF	ne 25,9
12	2.4. Mobility in soil	
	METHYL ACETATE Partition coefficient: soil/water	0,18

#### 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  $\geq$  than 0,1%.

< 3

#### 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

N-BUTYL ACETATE Partition coefficient: soil/water

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 or PAINT RELATED MATERIAL
IMDG:	PAINT or PAINT RELATED MATERIAL
IATA:	PAINT or PAINT RELATED MATERIAL

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@EPY 11.5.2 - SDS 1004.14



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#### SECTION 14. Transport information .... / >>

#### 14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3	
IMDG:	Class: 3	Label: 3	
IATA:	Class: 3	Label: 3	

# 

#### 14.4. Packing group

ADR / RID, IMDG, IATA: Ш

#### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

#### 14.6. Special precautions for user

ADR / RID: IMDG:

IATA:

HIN - Kemler: 33 Limited Quantities: 5 L Special provision: 163, 367, 640C, 650 Limited Quantities: 5 L EMS: F-E, <u>S-E</u> Cargo: Maximum quantity: 60 L Passengers: Maximum quantity: 5 L Special provision: A3, A72, A192

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

P5c

Seveso Category - Directive 2012/18/EU:

Restrictions relating to th	e product or cor	tained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product		
Point	3 - 40	
Contained substance		
Point	75	
Point	69	METHANOL
		REACH Reg.: 01-2119433307-44
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  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

Substances subject to the Rotterdam Convention:

None

ΕN



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

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

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

VOC (Directive 2004/42/EC) : Binding primers.

#### 15.2. Chemical safety assessment

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

## **SECTION 16. Other information**

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

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



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

- 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
- 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)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

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

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

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

#### CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified: 02 / 03 / 04 / 07 / 08 / 09 / 10 / 11 / 12 / 15 / 16.