Meccano	car Italia S.r.I.	Revision nr. 3
		Dated 26/02/2020
	ANIZER SPRAY	Printed on 26/02/2020
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		Replaced revision:2 (Dated: 13/01/2020)
	Safety Data Sheet	
Accord	ding to Annex II to REACH - Regulation 2015/830	
SECTION 1. Identification of the sub	stance/mixture and of the company/under	taking
1.1. Product identifier	444.00.04000.0004	
Code: Product name	411 00 01800-2604 COLD GALVANIZER SPRAY	
roddername		
1.2. Relevant identified uses of the substance or n	nixture and uses advised against	
Intended use Protective coating ba		
1.3. Details of the supplier of the safety data sheet Name	Meccanocar Italia S.r.I.	
Full address	Via San Francesco, 22	
District and Country	56033 Capannoli (PI)	
	Italy	
	Tel. +39 0587 609433	
	Fax +39 0587 607145	
e-mail address of the competent person		
responsible for the Safety Data Sheet	moreno.meini@meccanocar.it	
1.4. Emergency telephone number	National Deisona Information Comisso 44 404 507 4400	
For urgent inquiries refer to	National Poisons Information Service: +44 121 507 4123	5
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 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Aerosol, category 1	H222 H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

## 2.2. Label elements



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CAS       8,5 ≤ x < 10       Fiam. Liq. 2 H225, Asp. Tox. 1 H304, STOT H411, EUH066         INDEX       Reg. no. 01-2119486291-36-XXXX       Red. 11, EUH066         AND P-XYLENE       AND M-XYLENE       AND P-XYLENE         CAS       8,5 ≤ x < 10       Fiam. Liq. 3 H226, Acute Tox. 4 H312, Acute         EC 905-562-9       INDEX -       Reg. no. 01-2119488216-32-XXXX       Fiam. Liq. 2 H225, Eye Irrit. 2 H319, STOT S         CAS       1-2119488216-32-XXXX       Fiam. Liq. 2 H225, Eye Irrit. 2 H319, STOT S       EC 205-500-4         INDEX 607-022-00-5       Reg. no. 01-2119475103-46-XXXX       Fiam. Liq. 2 H225, Eye Irrit. 2 H319, STOT S         EC 205-500-4       INDEX 607-022-00-5       Reg. no. 01-2119475103-46-XXXX         BARIUM SULFATE       CAS 7727-43-7       4,5 ≤ x < 5       Substance with a community workplace expc         EC 231-784-4       INDEX -       Reg. no. 01-2119491274-35-XXXX       HUTDEX 603-064-00-3         Reg. no. 01-2119491274-35-XXXX       HUTDEX 603-064-00-3       Reg. no. 01-2119457435-35-XXXX         NBUEX 603-064-00-3       Reg. no. 01-2119457435-35-XXXX       Fiam. Liq. 3 H226, STOT SE 3 H336, EUH00         CC 204-658-1       INDEX 607-025-00-1       Reg. no. 01-2119457435-35-XXXX         HYDROCARBONS, C9, AROMATIC       CAS 123-86-4       4,5 ≤ x < 5       Fiam. Liq. 3 H226, Asp. Tox. 1 H304, STOT	Page n 3/38
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H411, EÜH066 H411, EÜH066 H411, EÜH066 INDEX - Reg. no. 01-2119486291-36-XXXX <b>REACTION MASS OF</b> ETHYLENE AND M-XYLENE AND P-XYLENE CAS - 8,5 $\leq$ x < 10 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute EC 905-562-9 INDEX - Reg. no. 01-2119488216-32-XXXX ETHYL ACETATE CAS 141-78-6 4,5 $\leq$ x < 5 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT S EC 205-500-4 INDEX 607-022-00-5 Reg. no. 01-2119475103-46-XXXX BARIUM SULFATE CAS 7727-43-7 4,5 $\leq$ x < 5 Substance with a community workplace expo EC 231-784-4 INDEX - Reg. no. 01-2119491274-35-XXXX HMETHOXY-2-PROPANOL CAS 107-98-2 4,5 $\leq$ x < 5 Flam. Liq. 3 H226, STOT SE 3 H336 EC 203-539-1 INDEX 603-064-00-3 Reg. no. 01-2119457435-35-XXXX NBUTYL ACETATE CAS 123-86-4 4,5 $\leq$ x < 5 Flam. Liq. 3 H226, STOT SE 3 H336, EUH06 EC 204-658-1 INDEX 607-025-00-1 Reg. no. 01-211945433-29-XXXX HYDROCARBONS, C9, AROMATIC CAS 64742-95-6 4,5 $\leq$ x < 5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT Aquatic Chronic 2 H411 EC 918-668-5 INDEX 649-366-00-4 Reg. no. 01-2119455851-35-XXXX ZINC OXIDE	Replaced revision:2 (Dated: 13/01/2020)
EC 926-605-8 INDEX - Reg. no. 01-2119486291-36-XXXX <b>FEACTION MASS OF</b> <b>ETHYLEENZENE AND M-XYLENE</b> <b>AND P-XYLENE</b> <b>CAS</b> - 8,5 $\leq$ x < 10 EC 905-562-9 INDEX - Reg. no. 01-211948216-32-XXXX <b>ETHYL ACETATE</b> <b>CAS</b> 141-78-6 4,5 $\leq$ x < 5 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT S EC 205-500-4 INDEX 607-022-00-5 Reg. no. 01-2119475103-46-XXXX <b>BARIUM SULFATE</b> <b>CAS</b> 7727-43-7 4,5 $\leq$ x < 5 Substance with a community workplace expo EC 231-784-4 INDEX - Reg. no. 01-2119491274-35-XXXX <b>1-METHOXY-2-PROPANOL</b> <b>CAS</b> 107-98-2 4,5 $\leq$ x < 5 Flam. Liq. 3 H226, STOT SE 3 H336 EC 203-539-1 INDEX 603-064-00-3 Reg. no. 01-2119457435-35-XXXX <b>NBUTY LACETATE</b> <b>CAS</b> 123-86-4 4,5 $\leq$ x < 5 Flam. Liq. 3 H226, STOT SE 3 H336, EUHOR EC 204-658-1 INDEX 607-025-00-1 Reg. no. 01-2119485493-29-XXXX <b>HYDROCARBONS, C3, AROMATIC</b> <b>CAS</b> 61742-95-6 4,5 $\leq$ x < 5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT Aquatic Chronic 2 H411 EC 918-668-5 INDEX 649-366-00-4 Reg. no. 01-2119455851-35-XXXX <b>ZINC OXIDE</b>	SE 3 H336, Aquatic Chronic 2
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EC 918-668-5 INDEX 649-356-00-4 Reg. no. 01-2119455851-35-XXXX ZINC OXIDE	SE 3 H335, STOT SE 3 H336,
INDEX 649-356-00-4 Reg. no. 01-2119455851-35-XXXX ZINC OXIDE	
Reg. no. 01-2119455851-35-XXXX ZINC OXIDE	
ZINC OXIDE	
EC 215-222-5	
INDEX 030-013-00-7	
Reg. no. 01-2119463881-32-XXXX	
TRIZINC BIS           (ORTHOPHOSPHATE)           CAS         7779-90-0           0,5 ≤ x < 0,6	
EC 231-944-3	
INDEX 030-011-00-6	

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Reg. no. 01-2119485044-40-XXXX

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

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 45,00 %

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

#### 4.1. Description of first aid measures

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

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

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

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

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

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

Information not available

## **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

#### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

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

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

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

## 6.2. Environmental precautions

Do not disperse in the environment.

## 6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. 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

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

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

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

## 7.3. Specific end use(s)

Information not available

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

## 8.1. Control parameters

Regulatory References:

ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition published 2018)
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
NOR	Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
EU	OEL EU	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 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

## HYDROCARBONS C3-4

Meccanocal Italia S.r.I.							Revision nr. 3 Dated 26/02/2020		
COLD GALVANIZER SPRAT							rinted on 26/02/2020 age n. 6/38 eplaced revision:2 (Date	ed: 13/01/2020)	
Threshold Limit Value	Country	TWA/8h		STEL/15min		Remar	ks /		
	-	mg/m3	ppm	mg/m3	ppm	Observ	vations		
TLV-ACGIH			1000						
Health - Derived no-effect	level - DNEL / D Effects on consumers	DMEL			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Skin								23,4 mg/kg bw/d	
REACTION MASS OF ETH Predicted no-effect concentration		ND M-XYLENE A	ND P-XYLENE						
Normal value in fresh water				0,327	mg	g/l			
Normal value in marine water				0,327	mg				
Normal value for fresh water se				12,46	-	g/kg			
Normal value for marine water s				12,46	-	g/kg			
Normal value of STP microorga				6,58	mg				
Normal value for the terrestrial of	•			2,31	mg	g/kg			
Health - Derived no-effect	Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral				12,5 mg/kg bw/d					
Inhalation Skin	260 mg/m3	260 mg/m3	65,3 mg/m3	65,3 mg/m3 125 mg/kg bw/d	442 mg/m3	442 mg/m3	3 221 mg/m3	221 mg/m3 212 mg/kg bw/d	
HYDROCARBONS, C6-C7 Health - Derived no-effect			HEXANE		Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral				1301 mg/kg bw/d		oyotoniio		0,000,000	
Inhalation				1131 mg/m3				5306 mg/m3	
Skin				1377 mg/kg bw/d				13964 mg/kg bw/d	
HYDROCARBONS, C9, AR Health - Derived no-effect	Effects on	DMEL			Effects on workers				
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral				11 mg/kg bw/d					
Inhalation				32 mg/m3				150 mg/m3	
Skin				11 mg/kg bw/d				25 mg/kg bw/d	
N-BUTYL ACETATE									
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remar			
		mg/m3	ppm	mg/m3	ppm	Observ	vations		
				, in the second se					

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						R	eplaced revision:2 (Date	ed: 13/01/2020)
VLA	ESP	724	150	965	200			
VLEP	FRA	710	150	940	200			
WEL	GBR	724	150	966	200			
TLV	NOR		75					
TLV-ACGIH			50		150			
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				0,18	mg	/I		
Normal value in marine water				0,018	mg	/I		
Normal value for fresh water sed	liment			0,981	mg	/kg		
Normal value for marine water se	ediment			0,098	mg	/kg		
Normal value of STP microorgar	isms			35,6	mg	/I		
Normal value for the terrestrial c	ompartment			0,09	mg	/kg		
Health - Derived no-effect	Effects on	MEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral		2 mg/kg bw/d		systemic 2 mg/kg bw/d		systemic		systemic
Inhalation	300 mg/m3	300 mg/m3	35,7 mg/m3	35,7 mg/m3	600 mg/m3	600 mg/m3	3 300 mg/m3	300 mg/m3
Skin		6 mg/kg bw/d		6 mg/kg bw/d		11 mg/kg bw/d		11 mg/kg bw/d
1-METHOXY-2-PROPANOL Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remar		
		mg/m3	ppm	mg/m3	ppm	Observ	ations	
VLA	ESP	375	100	568	150	SKIN		
VLEP	FRA	188	50	375	10	SKIN		
WEL	GBR	375	100	560	150	SKIN		
VLEP	ITA	375	100	568	150	SKIN		
TLV	NOR	180	50			SKIN		
VLE	PRT	375	100	568	150	_		
OEL	EU	375	100	568	150	SKIN		
TLV-ACGIH	EU	184	50	368	100	ORIN		
Predicted no-effect concentration		104	50		100			
	I-FNEC			10		//		
Normal value in fresh water				10	mg			
Normal value in marine water				1	mg			
				52,3	mg	-		
Normal value for marine water so	ediment			5,2	mg	/kg		
Normal value for marine water so Normal value of STP microorgar	ediment iisms			5,2 100	mg mg	/kg /l		
Normal value for marine water so Normal value of STP microorgar Normal value for the terrestrial c	ediment iisms ompartment			5,2	mg	/kg /l		
Normal value for fresh water sed Normal value for marine water se Normal value of STP microorgar Normal value for the terrestrial c Health - Derived no-effect	ediment hisms ompartment level - DNEL / D Effects on	MEL		5,2 100	mg mg mg Effects on	/kg /l		
Normal value for marine water so Normal value of STP microorgar Normal value for the terrestrial or Health - Derived no-effect	ediment iisms ompartment <b>level - DNEL / D</b>	MEL Acute systemic	Chronic local	5,2 100 4,59 Chronic	mg mg mg	/kg /l /kg Acute	Chronic local	Chronic
Normal value for marine water so Normal value of STP microorgar Normal value for the terrestrial c	ediment hisms ompartment level - DNEL / D Effects on consumers		Chronic local	5.2 100 4,59	mg mg Effects on workers	/kg /I /kg	Chronic local	Chronic systemic

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43,9 mg/kg 183 mg/kg Skin bw/d bw/d **BARIUM SULFATE Threshold Limit Value** Туре Country TWA/8h STEL/15min Remarks / Observations mg/m3 ppm mg/m3 ppm VLA ESP 10 WEL GBR 10 INHAL RESP WEL GBR 4 VLEP ITA 0,5 OFI FU 0.5 TLV-ACGIH 5 Predicted no-effect concentration - PNEC Normal value in fresh water 11,5 mg/l Normal value for fresh water sediment 600.4 mg/kg Normal value of STP microorganisms 62.2 mg/l Normal value for the terrestrial compartment 207,7 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic Oral 13000 mg/kg bw/d Inhalation 10 mg/m3 10 mg/m3 10 mg/m3 ETHYL ACETATE **Threshold Limit Value** STEL/15min Туре Country TWA/8h Remarks / Observations mg/m3 ppm mg/m3 ppm VLA ESP 734 200 1468 400 VLEP FRA 1400 400 WEL GBR 734 200 1468 400 VLEP 400 ITA 734 200 1468 NOR 734 TIV 200 VLE PRT 400 734 200 1468 OEL EU 734 200 1468 400 TLV-ACGIH 1441 400 Predicted no-effect concentration - PNEC Normal value in fresh water 0,24 mg/l Normal value in marine water 0 0 2 4 mg/l Normal value for fresh water sediment 1,15 mg/kg Normal value for marine water sediment 0,115 mg/kg Normal value of STP microorganisms 650 mg/l Normal value for the food chain (secondary poisoning) 0,2 mg/kg 0,148 Normal value for the terrestrial compartment mg/kg Health - Derived no-effect level - DNEL / DMEL

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	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 4,5 mg/kg bw/d		systemic		systemic
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m
Skin				37 mg/kg bw/d				63 mg/kg bw/d
TRIZINC BIS (ORTHOP	HOSPHATE)							
Predicted no-effect concentr	ration - PNEC							
Normal value in fresh water				2,06	mg	/1		
Normal value in marine wate	ər			0,61	mg	/I		
Normal value for fresh water	r sediment			117,8	mg	/kg		
Normal value for marine wat	ter sediment			56,5	mg	/kg		
Normal value of STP microo	organisms			10	mg	/I		
Normal value for the terrestr	ial compartment			35,6	mg	/kg		
Health - Derived no-effe		MEL			<b>F</b> ″			
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,83 mg/kg		-,		
Inhalation				bw/d 2,5 mg/m3				5 mg/m3
Skin				83 mg/kg				83 mg/kg
				bw/d				bw/d
ZINC OXIDE								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observatio		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	2		10				
VLEP	FRA	5						
TLV	NOR	5						
		2		10				
TLV-ACGIH	ration - PNEC	2		10				
TLV-ACGIH Predicted no-effect concenti		2		10 2,6	mg	/1		
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water		2			mg mg			
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water Normal value in marine wate	er	2		2,6	mg			
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water Normal value in marine water Normal value for fresh water	er r sediment	2		2,6 0,61	mg	/I		
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water	er r sediment ter sediment	2		2,6 0,61 117,8	mg	/l /kg /kg		
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water Normal value in marine water Normal value for fresh water Normal value for marine wat Normal value of STP microo	er r sediment ter sediment organisms	2		2,6 0,61 117,8 56,5 10	mg mg mg mg	// /kg //kg		
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water Normal value in marine wate Normal value for fresh water Normal value for marine wat Normal value of STP microo Normal value of the terrestr	er r sediment ter sediment organisms rial compartment			2,6 0,61 117,8 56,5	mg mg mg mg	/l /kg /kg		
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water Normal value in marine wate Normal value for fresh water Normal value for marine wat	er r sediment ter sediment organisms rial compartment ect level - DNEL / C Effects on			2,6 0,61 117,8 56,5 10	mg mg mg mg Effects on	// /kg //kg		
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water Normal value in marine wate Normal value for fresh water Normal value for marine wat Normal value of STP microo Normal value of STP microo Normal value for the terrestr Health - Derived no-effe	er r sediment ter sediment organisms rial compartment <b>ect level - DNEL / D</b>		Chronic local	2,6 0,61 117,8 56,5 10 35,6 Chronic	mg mg mg mg mg	// /kg // /kg Acute	Chronic local	Chronic
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water Normal value in marine wate Normal value for fresh water Normal value for marine wat Normal value of STP microo Normal value of STP microo Normal value for the terrestr Health - Derived no-effe Route of exposure	er r sediment ter sediment organisms rial compartment ect level - DNEL / C Effects on consumers	DMEL	Chronic local	2,6 0,61 117,8 56,5 10 35,6 Chronic systemic	mg mg mg mg mg Effects on workers	/l /kg /l /l /kg	Chronic local	Chronic systemic
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water Normal value in marine wate Normal value for fresh water Normal value for fresh water Normal value of STP microo Normal value of STP microo Normal value of STP microo Route of exposure Oral	er r sediment ter sediment organisms rial compartment ect level - DNEL / C Effects on consumers	DMEL	Chronic local	2,6 0,61 117,8 56,5 10 35,6 Chronic systemic 0,83 mg/kg bw/d	mg mg mg mg mg Effects on workers	// /kg // /kg Acute		systemic
TLV-ACGIH Predicted no-effect concentr Normal value in fresh water Normal value in marine wate Normal value for fresh water Normal value for marine wat Normal value of STP microo Normal value of the terrestr	er r sediment ter sediment organisms rial compartment ect level - DNEL / C Effects on consumers	DMEL	Chronic local	2,6 0,61 117,8 56,5 10 35,6 Chronic systemic 0,83 mg/kg	mg mg mg mg mg Effects on workers	// /kg // /kg Acute	Chronic local 0,5 mg/m3	

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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 None required.

SKIN PROTECTION

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

## EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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.

### 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.

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Any specific glove information provided is based on published literature and glove manufacturer data. The suitability of the gloves and breakthrough time will differ according to the specific conditions of use. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for conditions of use. Inspect and replace worn or damaged gloves. The types of gloves to consider for this material include: If prolonged or repeated contact is likely, the use of chemical resistant gloves is recommended. If contact with forearms is likely, wear glove-style gloves. Nitrile, standards CEN EN 420 and EN 374 provide general requirements and lists of types of gloves.

#### N-BUTYL ACETATE

Wear protective gloves. The recommendations are listed below. Other protective material can be used, depending on the situation, if adequate data on degradation and permeation are available. If other chemicals are used together with this chemical, the selection of materials should be based on the protection of all chemicals present.

1-METHOXY-2-PROPANOL

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Use chemical resistant gloves classified according to EN374: protective gloves against chemicals and microorganisms. Examples of preferred barrier material for gloves include: Butyl rubber. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable barrier materials for gloves include: Natural rubber ("latex"). Neoprene. Nitrile / butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. In case of prolonged or frequently repeated contact, a glove with a protection class of 5 or higher is recommended (breakthrough time greater than 240 minutes according to EN 374). When only brief contact is expected, a glove with a protection class of 1 or more is recommended (breakthrough time greater than 10 minutes according to EN 374). NOTICE: selection of a specific glove for a particular application and duration of use in a work environment should also take into account all relevant factors in the workplace such as, but not limited to: Other chemicals that can be handled , physical requirements (cut / puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as instructions / specifications provided by the glove supplier.

BARIUM SULFATE

Protective gloves (PVC, neoprene, natural rubber)

ETHYL ACETATE

Butyl rubber gloves (opening times> 480 minutes), Neoprene ™ rubber, nitrile rubber (opening times up to 480 minutes).

TRIZINC BIS (ORTHOPHOSPHATE)

Chemical protective gloves (EN 374) e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm), among others. Due to a large variety of types, it is necessary to follow the manufacturer's instructions.

ZINC OXIDE

Protective gloves (EN 374)

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

## 9.1. Information on basic physical and chemical properties

Appearance	aerosol
Colour	grey
Odour	characteristic
Odour threshold	Not available
рН	Not available
Melting point / freezing point	< -100 °C
Initial boiling point	> -42 °C
Boiling range	Not available
Flash point	< -80 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	1,8 % (V/V)
Upper inflammability limit	9,5 % (V/V)
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	3,2 bar

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Vapour density	>2 (propellant)
Relative density	0,71
Solubility	soluble in organic solvents
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

## 9.2. Other information

Information not available

## **SECTION 10. Stability and reactivity**

## 10.1. Reactivity

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

### N-BUTYL ACETATE

Decomposes on contact with: water.

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.

## ETHYL ACETATE

It slowly decomposes to acetic acid and ethanol due to the action of light, air and water. Stable under normal conditions. Upon storage, it is slowly decomposed by 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.

#### ZINC POWDER - ZINC DUST

Risk of explosion on contact with: ammonium nitrate, ammonium sulphide, barium peroxide, lead nitride, chlorates, chromium trioxide, sodium hydroxide, oxidising agents, performic acid, acids, tetrachloromethane, water. May react dangerously with: alkaline hydroxides, bromine pentafluoride, calcium chloride, fluorine, hexachloroethane, nitrobenzene, potassium dioxide, carbon disulphide, silver. Reacts with: strong acids, strong alkalis. May develop: hydrogen.

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## 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.

Vapors can form an explosive mixture with air.

1-METHOXY-2-PROPANOL

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

## 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.

### 10.4. Conditions to avoid

Avoid overheating.

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Avoid heat, sparks, open flames and other sources of ignition.

N-BUTYL ACETATE

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

Avoid contact with heat, sparks, open flames and static discharge. Avoid any source of ignition.

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

Do not distill to dryness. The product can oxidize at high temperatures. The generation of gas during decomposition can cause pressure in closed systems.

## BARIUM SULFATE

Strong heat

## ETHYL ACETATE

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

Ignition sources.

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#### 10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Strong oxidants.

ZINC POWDER - ZINC DUST

Incompatible with: water,acids,strong alkalis.

N-BUTYL ACETATE

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

Strong acids and strong bases, strong oxidizing agents.

1-METHOXY-2-PROPANOL

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

Avoid contact with: strong acids. Strong bases. Strong oxidants.

## ETHYL ACETATE

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

Oxidizing agents, acids, alkalis.

ZINC OXIDE

Acids and basics.

#### 10.6. Hazardous decomposition products

1-METHOXY-2-PROPANOL

Decomposition products depend on temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Ketones. Organic acids.

## ETHYL ACETATE

Carbon oxides on combustion.

ZINC OXIDE

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ZnO fumes can be generated during heat treatment.

## **SECTION 11. Toxicological information**

## 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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.

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

### 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.

#### 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.

#### Interactive effects

## N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

## ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: >2000 mg/kg

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TRIZINC BIS (ORTHOPHOSPHATE)

LD50 (Oral) > 5000 mg/kg Rat - Wistar

LC50 (Inhalation) > 5,7 mg/l Rat

## HYDROCARBONS C3-4

Method: Not indicated-Read Across Reliability: 2 Species: Rat (Alderley Park (SPF); male / female) Route of exposure: Inhalation Results: LC50 1 443 mg / L air

REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE

Method: Equivalent or similar to EU Method B.1 Reliability: 1 Species: Rat (F344 / N; male / female) Route of exposure: Oral Results: LD50 = 3523 mg / kg bw Method: Equivalent or similar to EU Method B.2 Reliability: 2 Species: Rat (Long-Evans; male) Route of exposure: Inhalation (vapors) Results: LC50 = 6350 ppm

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Method: Equivalent or similar to OECD 401 Reliability: 2 Species: Rat (Long-Evans; male) Route of exposure: Oral Results: LD50> 25 mL / kg bw Method: Equivalent or similar to OECD 403 Reliability: 2 Species: Rat (Long-Evans; male) Route of exposure: Inhalation (vapors) Results: LD50 = 73860 ppm Method: Equivalent or similar to OECD 402 Reliability: 2 Species: Rabbit (New Zealand White; male) Route of exposure: Dermal Results: LD50> 5 mL / kg bw

## ZINC POWDER - ZINC DUST

Method: OECD 401 Reliability: 2 Species: Rat (Wistar; male; female) Route of exposure: Oral Results: LD50> 2 000 mg / kg bw Method: OECD 403 Reliability: 2 Species: Rat (Wistar; male; female) Route of exposure: Inhalation (dust) Results: LC50> 5 410 mg / m<sup>3</sup> air

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HYDROCARBONS, C9, AROMATIC

Method: Not indicated Reliability: 2 Species: Rat (Charles River CD; male / female) Route of exposure: Oral Results: LD50 = 4mL / kg bw Method: Equivalent or similar to OECD 403 Reliability: 1 Species: Rat (Crl: CDBR; male / female) Route of exposure: Inhalation (vapors) Results: LC50> 6193 mg / m3 air Method: Equivalent or similar to OECD 402 Reliability: 2 Species: Rabbit (New Zealand White; male / female) Route of exposure: Dermal Results: LD50 = 3160 mg / kg bw

## N-BUTYL ACETATE

Method: Equivalent or similar to OECD 423 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: LD50 = 12.2 mL / kg bw Method: Equivalent or similar to OECD 402 Reliability: 2 Species: Rabbit (New Zealand White; male / female) Route of exposure: Dermal Results: LD50> 16 mL / kg bw

#### 1-METHOXY-2-PROPANOL

Method: EU Method B.1 Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: LD50 = 3739 mg / kg bw Method: Equivalent or similar to OECD 403 Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: Not classified Method: Equivalent or similar to EU Method B.3 Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Dermal Results: LD50> 2000 mg / kg bw

#### BARIUM SULFATE

Method: Equivalent or similar to OECD 401 Reliability: 2 Species: Rat (Wistar; male) Route of exposure: Oral Results: LD50 = 307 g / kg

### ETHYL ACETATE

Method: Multi-Substance Rule for the Testing of Neurotoxicity 40 CFR Part 799 (58 FR 40262) Reliability: 1

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Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: Negative Method: Not indicated Reliability: 2 Species: Rabbit (New Zealand White; male) Route of exposure: Dermal Results: LD50> 20 000 mg / kg bw

## ZINC OXIDE

Method: Equivalent or similar to OECD 401 Reliability: 2 Species: Rat (Wistar; male / female) Route of exposure: Oral Results: LD50> 5 000 mg / kg bw Method: Equivalent or similar to OECD 403 Reliability: 2 Species: Rat (male / female) Route of exposure: Inhalation Results: LC50> 5 700 mg / m<sup>3</sup> air Method: OECD 402 Reliability: 1 Species: Rat (Wistar; male / female) Route of exposure: Dermal Results: LD50> 2 000 mg / kg bw

## **SKIN CORROSION / IRRITATION**

Causes skin irritation

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Method: OECD 404 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Dermal Results: Not irritating

ZINC POWDER - ZINC DUST

Method: Not indicated-Read Across Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Dermal Results: Not irritating

HYDROCARBONS, C9, AROMATIC

Method: Directive 67/548 / EEC (OECD TG 404) Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Dermal Results: Not classified

N-BUTYL ACETATE

Method: Equivalent or similar to OECD 404 Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Dermal

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Results: Not irritating

1-METHOXY-2-PROPANOL

Method: Equivalent or similar to EU Method B.4 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Dermal Results: Not irritating

## BARIUM SULFATE

Results: Not indicated

Method: OECD guidelines for testing chemicals, draft proposal for a new guideline: in vitro skin irritation: reconstructed human epidermis (RhE) test method Reliability: 2 Human species Route of exposure: Dermal

ZINC OXIDE

Method: Not indicated Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Dermal Results: Not irritating

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Method: Equivalent or similar to OECD 405 Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

ZINC POWDER - ZINC DUST

Method: EU Method B.5 Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

#### HYDROCARBONS, C9, AROMATIC

Method: Equivalent or similar to OECD 405 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

N-BUTYL ACETATE

Method: OECD 405 Reliability: 2

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Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

## 1-METHOXY-2-PROPANOL

Method: Equivalent or similar to EU Method B.5 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

BARIUM SULFATE

Method: OECD 405 Reliability: 1 Species: Rabbit (Himalayan) Route of exposure: Ocular Results: Not irritating

## ETHYL ACETATE

Method: OECD 405 Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

## TRIZINC BIS (ORTHOPHOSPHATE)

Method: OECD 405 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

ZINC OXIDE

Method: EU Method B.5 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Method: Equivalent or similar to OECD 429 Reliability: 2 Species: Mouse Route of exposure: Dermal Results: Not sensitizing

## HYDROCARBONS, C9, AROMATIC

Method: OECD 406

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Reliability: 1 Species: guinea pig (Hartley; female) Route of exposure: Dermal Results: Not sensitizing

### 1-METHOXY-2-PROPANOL

Method: Equivalent or similar to EU Method B.6 Reliability: 1 Species: guinea pig (male / female) Route of exposure: Dermal Results: Not sensitizing

BARIUM SULFATE

Method: OECD 429 Reliability: 1 Species: Mouse (CBA; female) Route of exposure: Dermal Results: Not sensitizing

Skin sensitization ZINC POWDER - ZINC DUST

Method: OECD 406-Read Across Reliability: 1 Species: guinea pig (Dunkin-Hartley; female) Route of exposure: Dermal Results: Not sensitizing

## ETHYL ACETATE

Method: OECD 406 Reliability: 1 Species: guinea pig (Dunkin-Hartley; female) Route of exposure: Dermal Results: Not sensitizing

#### TRIZINC BIS (ORTHOPHOSPHATE)

Method: OECD 406 Reliability: 1 Species: guinea pig (Dunkin-Hartley; female) Route of exposure: Dermal Results: Not sensitizing

## ZINC OXIDE

Method: OECD 406 Reliability: 1 Species: guinea pig (Dunkin-Hartley; females) Route of exposure: Dermal Results: Not sensitizing

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

HYDROCARBONS C3-4

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Method: OECD 474-test in vivo Reliability: 1 Species: Rat (Sprague-Dawley CD; male / female) Route of exposure: Inhalation (gas) Results: Negative Method: OECD 471 in vitro test - Read Across Reliability: 1 Species: S. typhimurium Results: Negative with and without metabolic activation

#### REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE

Method: Equivalent or similar to EU Method B.19-in vitro test Reliability: 2 Species: Chinese hamster Results: Negative with and without metabolic activation Method: Equivalent or similar to OECD 478 in vivo test Reliability: 2 Species: Rat (Long-Evans; male / female) Route of exposure: Intraperitoneal Results: Negative

#### HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Method: Equivalent or similar to OECD 475 in vivo test Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: Negative

ZINC POWDER - ZINC DUST

Method: Not indicated - in vitro test Reliability: 2 Species: Lymphoma mouse Results: Negative Bibliographic reference: Amacher DE & Paillet SC, Induction of trifluorothymidine-resistant mutants by metal ions in L5178y / TK +/- cells (1980) Method: Not indicated - in vivo test Reliability: 2 Species: Mouse (NMRI; male / female) Route of exposure: Introperitoneal Results: Negative Bibliographic reference: Gocke E, King M-T, Eckhardt K & Wild D, Mutagenicity of Cosmetics Ingredients Licensed by the European Communities (1981)

#### HYDROCARBONS, C9, AROMATIC

Method: Equivalent or similar to OECD 471 in vitro test Reliability: 1 Species: S. typhimurium Results: Negative with and without metabolic activation Method: Equivalent or similar to OECD 475 in vivo test Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: Negative

N-BUTYL ACETATE

Method: Equivalent or similar to OECD 471 in vitro test Reliability: 2 Species: S. typhimurium, E. Coli

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Results: Negative with and without metabolic activation

Method: OECD 474-test in vivo Reliability: 2 Species: Mouse (NMRI; male / female) Route of exposure: Oral Results: Negative

1-METHOXY-2-PROPANOL

Method: Equivalent or similar to OECD 471 in vitro test Reliability: 1 Species: S. typhimurium Results: Negative with and without metabolic activation Method: Equivalent or similar to OECD 474 in vivo test Reliability: 2 Species: Mouse (CD-1; male / female) Route of exposure: Intraperitoneal Results: Negative

### BARIUM SULFATE

Method: Equivalent or similar to OECD 471 in vitro-Read across test Reliability: 2 Species: S. typhimurium Results: Negative with and without metabolic activation

#### ETHYL ACETATE

Method: Equivalent or similar to OECD 471 in vitro test Reliability: 2 Species: S. typhimurium Results: Negative with and without metabolic activation Method: Equivalent or similar to OECD 474 in vivo test Reliability: 2 Species: Chinese hamster (male / female) Route of exposure: Oral Results: Negative

TRIZINC BIS (ORTHOPHOSPHATE)

Method: Not indicated - in vitro test Reliability: 2 Species: Lymphoma mouse Results: Negative Bibliographic reference: Amacher DE & Paillet SC, Induction of trifluorothymidine-resistant mutants by metal ions in L5178y / TK +/- cells (1980) Method: Not indicated - in vivo test Reliability: 2 Species: Mouse (NMRI; male / female) Route of exposure: Intraperitoneal Results: Negative Bibliographic reference: Gocke E, King M-T, Eckhardt K & Wild D, Mutagenicity of Cosmetics Ingredients Licensed by the European Communities (1981)

ZINC OXIDE

Method: Equivalent or similar to OECD 471 in vitro test Reliability: 2 Species: S. typhimurium Results: Negative with and without metabolic activation Method: OECD 474-test in vivo Reliability: 1

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Species: Mouse (NMRI; male) Route of exposure: intraperitoneal

CARCINOGENICITY

Results: Negative

Does not meet the classification criteria for this hazard class

HYDROCARBONS C3-4

Method: Equivalent or similar to EPA OPP 83-5 -Read Across Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: Carcinogen

## REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE

Method: Equivalent or similar to EU Method B.32 Reliability: 2 Species: Mouse (B6C3F1; male / female) Route of exposure: Oral Results: Negative

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Method: Equivalent or similar to OECD 451 Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC = 9016 ppm

ZINC POWDER - ZINC DUST

Method: Not indicated Reliability: 2 Species: Mouse (Chester Beatty stock; male / female) Route of exposure: Oral Results: NOAEL> 22 000 mg / L Bibliographic reference: Walters M & Roe FJC, A Study of the Effects of Zinc and Tin Administered Orally to Mice Over a Prolonged Period (1965)

1-METHOXY-2-PROPANOL

Method: OECD 453 Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: Negative

BARIUM SULFATE

Method: Not indicated Reliability: 2 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: Negative

TRIZINC BIS (ORTHOPHOSPHATE)

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Method: Not indicated Reliability: 2 Species: Mouse (Chester Beatty stock; male / female) Route of exposure: Oral Results: NOAEL> 22 000 mg / L Bibliographic reference: Walters M & Roe FJC, A Study of the Effects of Zinc and Tin Administered Orally to Mice Over a Prolonged Period (1965)

#### ZINC OXIDE

Method: Not indicated Reliability: 2 Species: Mouse (Chester Beatty stock; male / female) Route of exposure: Oral Results: NOAEL> 22 000 mg / L Bibliographic reference: Walters M & Roe FJC, A Study of the Effects of Zinc and Tin Administered Orally to Mice Over a Prolonged Period (1965)

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

## ETHYL ACETATE

Method: Equivalent or similar to OECD 416 Reliability: 1 Species: Mouse (CD-1; male / female) Route of exposure: Oral Results: Negative Method: Equivalent or similar to OECD 414 Reliability: 2 Species: Rat (Sprague-Dawley) Route of exposure: Inhalation Results: Negative

Adverse effects on sexual function and fertility HYDROCARBONS C3-4

Method: OECD 413 Reliability: 1 Species: Rat (Sprague-Dawley CD; male / female) Route of exposure: Inhalation (gas) Results: NOAEC (fertility) 10 000 ppm

#### REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE

Method: Not indicated Reliability: 2 Species: Rat (Crl-CD® (SC) BR; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC (fertility) = 500 ppm

## HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Method: Equivalent or similar to OECD 416 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC (fertility) = 3000 ppm

ZINC POWDER - ZINC DUST

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Method: Not indicated Reliability: 2 Species: Rat (Charles-Foster; male / female) Route of exposure: Oral Results: Zinc dietary supplementation at 4,000 ppm reduced male fertility in rats under the conditions of the study.

HYDROCARBONS, C9, AROMATIC

Method: Not indicated Reliability: 2 Species: Rat (Crj: CD (SD); male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC (fertility) = 1500 ppm

N-BUTYL ACETATE

Method: OECD 416 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC (fertility) = 750 ppm

1-METHOXY-2-PROPANOL

Method: OECD 416 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEL (fertility) = 300 ppm

BARIUM SULFATE

Method: Not indicated Reliability: 2 Species: Rat (Fischer 344 / N; male / female) Route of exposure: Oral Results: Negative (fertility) = 4000 ppm Bibliographic reference: Subchronic toxicity of barium chloride dihydrate administered to rats and mice in the drinking water, Dietz, D.D.; et al. (1992)

TRIZINC BIS (ORTHOPHOSPHATE)

Method: Equivalent or similar to OECD 416 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: NOAEL 15 mg / kg bw / day

## ZINC OXIDE

Method: Equivalent or similar to OECD 416 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: LOAEL (fertility) 7.5 mg / kg bw / day

Adverse effects on development of the offspring HYDROCARBONS C3-4

Method: EPA OPPTS 870.3700 Reliability: 1

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Species: Rat (VAF / Plus®, Sprague-Dawley Derived (CD®) Crl: CD® IGS BR) Route of exposure: Inhalation (gas) Results: NOAEC (development) 10 426 ppm

## REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE

Method: Equivalent or similar to OECD 414 Reliability: 2 Species: Rat (Sprague-Dawley) Route of exposure: Inhalation (vapors) Results: Positive (development)

ZINC POWDER - ZINC DUST

Method: Not indicated Reliability: 2 Species: Hamster Route of exposure: Oral Results: NOAEL (development) 88 mg / kg bw / day

#### HYDROCARBONS, C9, AROMATIC

Method: Not indicated-read across Reliability: 2 Species: Mouse (CD-1) Route of exposure: Inhalation (vapors) Results: NOEAC (development) = 500 ppm

N-BUTYL ACETATE

Method: Equivalent or similar to OECD 414 Reliability: 1 Species: Rat (Sprague-Dawley) Route of exposure: Inhalation (vapors) Results: Positive, NOAEC (development) = 1500 ppm

1-METHOXY-2-PROPANOL

Method: Equivalent or similar to OECD 414 Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Inhalation Results: Negative, NOAEL (development) = 3000 ppm

BARIUM SULFATE

Method: OECD 414 Reliability: 1 Species: Rat (Wistar) Route of exposure: Oral Results: Positive, NOAEL (development) = 25.6 mg / kg bw / day

## TRIZINC BIS (ORTHOPHOSPHATE)

Method: Not indicated Reliability: 2 Species: Hamster Route of exposure: Oral Results: NOAEL 88 mg / kg bw / day

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#### ZINC OXIDE

Method: OECD 414 Reliability: 1 Species: Rat (Wistar) Route of exposure: Inhalation (aerosol) Results: NOAEC (development) 7.5 mg / m<sup>3</sup> air

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

HYDROCARBONS C3-4

Based on available data and through expert judgment, the substance is not classified as dangerous in the target organ toxicity class for single exposure.

REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE

Based on available data and through expert judgment, the substance is not classified in the target exposure prgani toxicity class for single exposure.

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

ZINC POWDER - ZINC DUST

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

HYDROCARBONS, C9, AROMATIC

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

N-BUTYL ACETATE

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

1-METHOXY-2-PROPANOL

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

### BARIUM SULFATE

Based on available data and through expert judgment, the substance is not classified in the target exposure prgani toxicity class for single exposure.

## ETHYL ACETATE

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

#### TRIZINC BIS (ORTHOPHOSPHATE)

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

## ZINC OXIDE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

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Target organ

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

Narcosis

HYDROCARBONS, C9, AROMATIC

Nervous system, respiratory system

N-BUTYL ACETATE

Central nervous system.

1-METHOXY-2-PROPANOL

Central nervous system

ETHYL ACETATE

Central nervous system

Route of exposure HYDROCARBONS, C9, AROMATIC

Inhalation

1-METHOXY-2-PROPANOL

Inhalation

ETHYL ACETATE

Inhalation

STOT - REPEATED EXPOSURE

May cause damage to organs

HYDROCARBONS C3-4

Method: OECD 413 Reliability: 1 Species: Rat (Sprague-Dawley CD; male / female) Route of exposure: Inhalation (gas) Results: NOAEC 10 000 ppm

REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE

Method: Equivalent or similar to OECD 408 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: Negative, NOAEL = 150 mg / kg bw / day

HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

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Method: Equivalent or similar to OECD 413-Read across Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC = 2984 ppm

ZINC POWDER - ZINC DUST

Method: OECD 408 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: NOAEL 31.52 mg / kg bw Method: Not indicated-Read Across Reliability: 2 Species: guinea pig (Hartley; male) Route of exposure: Inhalation Results: Negative Bibliographic reference: Lam HF, Chen LC, Ainsworth D, Peoples S and Amdur MO, Pulmonary function of guinea pigs exposed to freshly generated ultrafine zinc oxide with and without spike concentrations (1988)

HYDROCARBONS, C9, AROMATIC

Method: Equivalent or similar to OECD 408 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: Negative, NOAEL = 600 mg / kg bw / day Method: Equivalent or similar to OECD 452 Reliability: 1 Species: Rat (Wistar; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC = 900 mg / m3 air

## N-BUTYL ACETATE

Method: EPA OTS 798.2650 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: NOAEL = 125 mg / kg bw / day Method: EPA OTS 798.2450 Reliability: 1 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC = 500 ppm

1-METHOXY-2-PROPANOL

Method: OECD 453 Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEL = 300 ppm Method: Equivalent or similar to OECD 410 Reliability: 1 Species: Rabbit (New Zealand White; male / female) Route of exposure: Dermal Results: Negative, NOAEL> 1000 mg / kg bw / day

BARIUM SULFATE

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Method: Not indicated Reliability: 2 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: NOAEL = 61.1 mg / kg bw / day Bibliographic reference: Subchronic Toxicity of Barium Chloride Dihydrate Administered to Rats and Mice in the Drinking Water, Dietz, D.D. et al. (1992)

### ETHYL ACETATE

Method: Equivalent or similar to EPA OTS 795.2600 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: NOAEL 900 mg / kg bw / day Method: EPA OTS 798.2450 Reliability: 1 Species: Rat (Crl: CD®BR; male / female) Route of exposure: Inhalation Results: LOEC 350 ppm

TRIZINC BIS (ORTHOPHOSPHATE)

Method: OECD 408 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: NOAEL 31.52 mg / kg bw / day

ZINC OXIDE

Method: OECD 408 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Oral Results: NOAEL 31.52 mg / kg bw Method: OECD 413 Reliability: 1 Species: Rat (Wistar; male) Route of exposure: Inhalation (aerosol) Results: NOAEL 1.5 mg / m<sup>3</sup> air Method: OECD 410 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Dermal Results: LOAEL 75 mg / kg bw / day

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment. 12.1. Toxicity

ZINC OXIDE

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LC50 - for Fish	1,1 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	1,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,14 mg/l/72h Pseudokirchnerella subcapitata
Chronic NOEC for Fish	0,53 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,024 mg/l
ZINC POWDER - ZINC DUST	
LC50 - for Fish	7,1 mg/l/96h Nothobranchius guentheri
EC50 - for Crustacea	2,8 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,015 mg/l/72h Pseudokirchneriella subcapitata
BARIUM SULFATE	
EC50 - for Crustacea	14,5 mg/l/48h
1-METHOXY-2-PROPANOL	
LC50 - for Fish	6812 mg/l/96h
EC50 - for Crustacea	23300 mg/l/48h
N-BUTYL ACETATE	
LC50 - for Fish	18 mg/l/96h
EC50 - for Crustacea	44 mg/l/48h
EC50 - for Algae / Aquatic Plants	397 mg/l/72h
EC10 for Algae / Aquatic Plants	196 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	196 mg/l
TRIZINC BIS (ORTHOPHOSPHATE)	
LC50 - for Fish	0,78 mg/l/96h Pimephales promelas
EC50 - for Crustacea	0,86 mg/l/48h Daphnia magna
REACTION MASS OF ETHYLBENZENE	
AND M-XYLENE AND P-XYLENE	
LC50 - for Fish	2,6 mg/l/96h
EC50 - for Crustacea	1 mg/l/48h
EC50 - for Algae / Aquatic Plants	1,3 mg/l/72h
LC10 for Fish	13 mg/l/28d
EC10 for Crustacea	0,96 mg/l/10d
EC10 for Algae / Aquatic Plants	0,44 mg/l/72h
Chronic NOEC for Fish	1,3 mg/l
Chronic NOEC for Crustacea	0,96 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,44 mg/l
HYDROCARBONS C3-4	
LC50 - for Fish	49,47 mg/l/96h
12.2. Persistence and degradability	

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HYDROCARBONS C3-4 Easily degradable in water. REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND Easily degradable in water, 94% in 28 days. HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HE Easily degradable in water, 98% in 28 days. HYDROCARBONS, C9, AROMATIC Easily degradable in water, 60% in 28 days. N-BUTYL ACETATE Easily degradable in water, 83% in 28 days. 1-METHOXY-2-PROPANOL Easily degradable in water, 4% in 28 days. ETHYL ACETATE Rapidly degradable, 60% in 10 days.	
ZINC OXIDE	
Solubility in water	2,9 mg/l
NOT rapidly degradable	
ETHYL ACETATE	
Solubility in water	> 10000 mg/l
Rapidly degradable	
ZINC POWDER - ZINC DUST	
Solubility in water	0,1 - 100 mg/l
Degradability: information not available	
BARIUM SULFATE	
Solubility in water	0,1 - 100 mg/l
Degradability: information not available	
1-METHOXY-2-PROPANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
N-BUTYL ACETATE	
Solubility in water	1000 - 10000 mg/l
TRIZINC BIS (ORTHOPHOSPHATE)	
Solubility in water	2,7 mg/l
Degradability: information not available	
12.3. Bioaccumulative potential	
ZINC OXIDE	
BCF	> 175
ETHYL ACETATE	

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Partition coefficient: n-octanol/water BCF	0,68 30
1-METHOXY-2-PROPANOL	
Partition coefficient: n-octanol/water	< 1
N-BUTYL ACETATE Partition coefficient: n-octanol/water	2,3
BCF	_,0 15,3
12.4. Mobility in soil	

N-BUTYL ACETATE Partition coefficient: soil/water

#### 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 greater than 0,1%.

< 3

## 12.6. Other adverse effects

Information not available

## **SECTION 13.** Disposal considerations

#### 13.1. Waste treatment methods

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

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

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.

#### HYDROCARBONS, C6-C7, ISOALKANES, CYCLIC, <5% N-HEXANE

The product is suitable for combustion in a closed controlled burner for the value or disposal of the fuel by supervised incineration at very high temperatures to prevent the formation of undesirable combustion products.

#### 1-METHOXY-2-PROPANOL

This product, when disposed of in its unused and uncontaminated state, must be treated as a hazardous waste according to EC Directive 91/689 / EEC. Disposal practices must comply with all national and provincial laws and local or local laws governing hazardous waste. Further evaluation may be required for used, contaminated and residual materials. Do not discharge into sewers, onto the ground or into any body of water.

#### BARIUM SULFATE

In accordance with local and national regulations. It can be placed in a landfill if it complies with local regulations. Dispose according to the European Directive on waste and hazardous waste.

#### ETHYL ACETATE

Dispose of as hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose according to local regulations. Disposal of the container: empty the container completely. Empty containers may contain highly flammable residues. Do not cut, grind, puncture, weld or dispose of containers unless adequate precautions have been taken against this hazard. Do not remove the container labels until they are cleaned. Send to drum recovery or metal recovery.

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#### ZINC OXIDE

The assignment of a waste code number, according to the European Waste Catalog, should be done in agreement with the regional waste disposal company.

# **SECTION 14. Transport information**

## 14.1. UN number

ADR / RID, IMDG, 1950 IATA:

## 14.2. UN proper shipping name

ADR / RID:	AEROSOLS
IMDG:	AEROSOLS
IATA:	AEROSOLS, FLAMMABLE

### 14.3. Transport hazard class(es)

ADR / RID:	Class: 2	Label: 2.1
IMDG:	Class: 2	Label: 2.1
IATA:	Class: 2	Label: 2.1



## 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

#### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: Special Provision: -	Limited Quantities: 1 L	Tunnel restriction code: (D)
IMDG:	EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Pass.:	Maximum quantity: 75 Kg	Packaging instructions: 203

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Special Instructions:	A145, A167, A802
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Information not relevant	
SECTION 15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substan	nce or mixture
Seveso Category - Directive 2012/18/EC: P3a-E2	
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Re	egulation 1907/2006
Product Point 40	
Substances in Candidate List (Art. 59 REACH)	
On the basis of available data, the product does not contain any SVHC in percentage greater	r than 0,1%.
Substances subject to authorisation (Annex XIV REACH)	
None	
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:	
None	
Substances subject to the Rotterdam Convention:	
None	
Substances subject to the Stockholm Convention:	
None	
Healthcare controls	
Workers exposed to this chemical agent must not undergo health checks, provided that avai workers' health and safety are modest and that the 98/24/EC directive is respected.	lable risk-assessment data prove that the risks related to the
15.2. Chemical safety assessment	
A chemical safety assessment has not been performed for the preparation/for the substances	s indicated in section 3.

# **SECTION 16.** Other information

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

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Flam. Gas 1A	Flammable gas, category 1A
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Press. Gas (Liq.)	Liquefied gas
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may burst if heated.
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.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
1	

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number - CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008 DNEL: Derived No Effect Level EmS: Emergency Schedule

- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration

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PEL: Predicted exposure level	
PNEC: Predicted no effect concentration	
REACH: EC Regulation 1907/2006 RID: Regulation concerning the international transport of dangerous goods by train	
TLV: Threshold Limit Value	
TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.	
ΓWA STEL: Short-term exposure limit ΓWA: Time-weighted average exposure limit	
/OC: Volatile organic Compounds	
vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation WGK: Water hazard classes (German).	
WON. Water hazalu classes (German).	
ENERAL BIBLIOGRAPHY . Regulation (EC) 1907/2006 (REACH) of the European Parliament	
Regulation (EC) 1272/2008 (CLP) of the European Parliament	
Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament	
Regulation (EU) 2015/830 of the European Parliament Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament	
Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament	
Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament	
Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament	
<ol> <li>Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament</li> <li>Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament</li> </ol>	
2. Regulation (EU) 2016/1179 (IX Atp. CLP)	
3. Regulation (EU) 2017/776 (X Atp. CLP)	
4. Regulation (EU) 2018/669 (XI Atp. CLP) 5. Regulation (EU) 2018/1480 (XIII Atp. CLP)	
6. Regulation (EU) 2019/521 (XII Atp. CLP)	
The Merck Index 10th Edition Handling Chemical Safety	
INRS - Fiche Toxicologique (toxicological sheet)	
Patty - Industrial Hygiene and Toxicology	
N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition IFA GESTIS website	
ECHA website	
Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy ote for users:	
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ne data for evaluation of chemical-physical properties are reported in section 9.	
hanges to previous review:	
ne following sections were modified:	
2 / 03 / 08 / 09 / 10 / 11 / 12 / 13 / 15 / 16.	