

Version	Revision Date:	SDS Number:	Date of last issue: 21.11.2022
11.0	06.06.2023	10647969-00010	Date of first issue: 11.06.2010

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

1.1 Product identifier

Trade name	:	LACQUER SPRAY QUATTRO RAL 5010 GENTIANBLUE - 400 ML
Product code	:	0893395010
Unique Formula Identifier (UFI)	:	XE03-U0R0-F00E-HWFF

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

Use of the Sub- stance/Mixture	:	Paint Professional use product
Use of the Sub- stance/Mixture Recommended restrictions on use	:	Not applicable

1.3 Details of the supplier of the safety data sheet

Company	:	Adolf Wuerth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau
Telephone	:	+49 794015 0
Telefax	:	+49 794015 10 00
E-mail address of person responsible for the SDS	:	isi@wuerth.com

1.4 Emergency telephone number

+49 (0)6132 - 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272	2/2008)
Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms Signal word Danger ÷ Hazard statements H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H336 May cause drowsiness or dizziness. **Prevention:** Precautionary statements • P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P261 Avoid breathing spray. P271 Use only outdoors or in a well-ventilated area. Storage: P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:

Dimethyl ether n-Butyl acetate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components			
Chemical name	CAS-No.	Classification	Concentration

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		EC-No. Index-No. Registration number		(% w/w)
Dime	thyl ether	115-10-6 204-065-8 603-019-00-8 01-2119472128-37	Flam. Gas 1A; H220 Press. Gas Liquefied gas; H280 STOT SE 3; H336	>= 30 - < 50
n-But	yl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	>= 20 - < 30
Xylen	e	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 (Auditory system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Acute toxicity esti- mate Acute inhalation tox- icity (vapour): 11 mg/l Acute dermal toxicity: 1.100 mg/kg	>= 2,5 - < 10
Ethyll	penzene	100-41-4 202-849-4 601-023-00-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 (Auditory system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Acute toxicity esti- mate Acute inhalation tox- icity (vapour): 17,8 mg/l	>= 1 - < 2,5
Tolue	ne	108-88-3 203-625-9 601-021-00-3	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361d STOT SE 3; H336 STOT RE 2; H373 (Central nervous system)	>= 0,25 - < 1

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			Asp. Tox. 1; H304 Aquatic Chronic 3; H412		
Subst	tances with a workpla	ce exposure limit :			
Bariu	m sulfate	7727-43-7 231-784-4		>= 1 - < 10	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
4.2 Most important symptoms	and e	ffects, both acute and delayed
Risks	:	May cause drowsiness or dizziness.
4.3 Indication of any immediate	e mec	lical attention and special treatment needed
Treatment	:	Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

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				Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	ble extinguishing	:	None known.	
5.2 \$	Special	hazards arising from	the	substance or mix	kture
	Specific fighting	e hazards during fire-	:	Vapours may form Exposure to comb	ble over considerable distance. In explosive mixtures with air. Dustion products may be a hazard to health. I rises there is danger of the vessels bursting apor pressure.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (N Metal oxides Sulphur oxides	NOx)
5.3	Advice	for firefighters			
		protective equipment	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

r revent futther leakage of spillage if sale to do so.
Prevent spreading over a wide area (e.g. by containment or oil
barriers).
Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages cannot be contained.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	 Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent.
	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Technical measures :	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation :	If sufficient ventilation is unavailable, use with local exhaust ventilation. If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventila- tion.
Advice on safe handling :	Do not get on skin or clothing. Do not breathe spray. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. Do not spray on an open flame or other ignition source.
	Do not breathe decomposition products.
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working

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		•	hen using do not eat, drink or smoke. Wash contami- thing before re-use.
7.2 Condi	tions for safe storage,	including an	/ incompatibilities
	irements for storage and containers	accordar	ked up. Keep in a cool, well-ventilated place. Store in ace with the particular national regulations. Do not burn, even after use. Keep cool. Protect from sun-
Advic	e on common storage	Self-read Organic Oxidizing Flammal Pyropho Pyropho Self-hea	ble solids ric liquids ric solids substances and mixtures ces and mixtures, which in contact with water, emit le gases
Stora	ge class (TRGS 510)	: 2B	
7.3 Specif	ic end use(s)		

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Dimethyl ether	115-10-6	TWA	1.000 ppm 1.920 mg/m3	2000/39/EC	
	Further inforr	mation: Indicative			
		AGW	1.000 ppm 1.900 mg/m3	DE TRGS 900	
	Peak-limit: ex	cursion factor (categ	jory): 8;(II)		
n-Butyl acetate	123-86-4	STEL	150 ppm 723 mg/m3	2019/1831/E U	
	Further inforr	nation: Indicative			
		TWA	50 ppm 241 mg/m3	2019/1831/E U	
	Further information: Indicative				
		AGW	62 ppm 300 mg/m3	DE TRGS 900	

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1	Peak-limit: ex	voursion factor (cated	rory: 2:(1)		
		xcursion factor (cated	s compliance with the OE	L and biological	
			of harming the unborn ch		
Barium sulfate	7727-43-7	AGW (Inhalable	10 mg/m3	DE TRGS	
Danum Sunate	1121 40 1	fraction)	To mg/mo	900	
	Peak-limit: ex	xcursion factor (categ	norv): 2:(II)		
		AGW (Alveolate	1,25 mg/m3	DE TRGS	
		fraction)	1,20 mg/mo	900	
	Peak-limit: ex	xcursion factor (categ	aorv): 2:(II)		
		TWA	0,5 mg/m3	2006/15/E	
			(Barium)		
	Further inforr	mation: Indicative			
Xylene	1330-20-7	TWA	50 ppm	2000/39/E	
-			221 mg/m3		
			possibility of significant u	uptake through th	
	skin, Indicativ				
		STEL	100 ppm	2000/39/E	
			442 mg/m3		
			possibility of significant u	iptake through th	
	skin, Indicativ		1		
		AGW	50 ppm	DE TRGS	
	Deal Parts		220 mg/m3	900	
		xcursion factor (cate			
Titenium discide		mation: Skin absorpti			
Titanium dioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m3 (Titanium dioxide)	DE TRGS 900	
	Peak-limit: excursion factor (category): 2;(II)				
		AGW (Alveolate	1,25 mg/m3	DE TRGS	
		fraction)	(Titanium dioxide)	900	
	Peak-limit: ex	xcursion factor (cate		000	
		BM (Alveolar	0,5 mg/m3	DE TRGS	
		dust fraction)	0,0 mg/mo	527	
Ethylbenzene	100-41-4	TWA	100 ppm	2000/39/E	
,			442 mg/m3		
			possibility of significant u	ptake through the	
	skin, Indicativ	STEL	200 ppm	2000/39/E	
		SIEL	200 ppm 884 mg/m3	2000/39/E	
	Further inform	nation: Identifies the	possibility of significant u	Intake through the	
	skin, Indicativ				
		AGW	20 ppm	DE TRGS	
			88 mg/m3	900	
		xcursion factor (cateo			
			ion, When there is compli here is no risk of harming		
Toluene	108-88-3	TWA	50 ppm	2006/15/E	
			192 mg/m3	2000/10/2	
	Further inform	nation: Indicative. Ide	entifies the possibility of s	significant uptake	

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I	I		384 mg/m3	I	
	Furth	ner information: Indicativ	e, Identifies the possibility of	of significant uptake	
	throu	igh the skin			
		AGW	50 ppm	DE TRGS	
			190 mg/m3	900	
	Peak-limit: excursion factor (category): 2;(II)				
Further information: Skin absorption, When there is compliance with the and biological tolerance values, there is no risk of harming the unborn ch					

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Formaldehyde	50-00-0	TWA	0,3 ppm 0,37 mg/m3	2004/37/EC		
	Eurther inform	l nation: Dermal sensit	tisation, Carcinogens or muta	Indens		
		STEL	0,6 ppm 0,74 mg/m3	2004/37/EC		
	Further inforn	nation: Dermal sensit	tisation, Carcinogens or muta	agens		
		AGW	0,3 ppm 0,37 mg/m3	DE TRGS 900		
	Peak-limit: excursion factor (category): 2;(I)					
	activity or pro Ordinance - in compliance w	Further information: Carcinogenic substance Cat. 1A or 1B or carcinogenic activity or procedure according to § 2 (3) No. 4 of the Hazardous Substance Ordinance - in addition, § 10 GefStoffV must be observed, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin				
Methanol	67-56-1	TWA	200 ppm 260 mg/m3	2006/15/EC		
	Further information: Indicative, Identifies the possibility of significant up through the skin					
		AGW	100 ppm 130 mg/m3	DE TRGS 900		
	Peak-limit: ex	cursion factor (categ	ory): 2;(II)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Xylene	1330-20-7	methylhippuric acid (all isomers): 2.000 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
Ethylbenzene	100-41-4	mandelic acid + phenylglyoxylic acid: 250 mg/g Creatinine (Urine)	Immediately after exposure or after working hours	TRGS 903
Toluene	108-88-3	toluene: 75 μg/l (Urine)	Immediately after exposure or after working hours	TRGS 903

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		toluene (Blood)	e: 600 µg/l	End of shift	TRGS 903
		o-cresc (Urine)	ol: 1,5 mg/l	In case of long- term exposure: after more than one shift, Immedi- ately after expo- sure or after work- ing hours	TRGS 903

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Xylene	Workers	Inhalation	Long-term systemic effects	221 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	442 mg/m3
	Workers	Inhalation	Long-term local ef- fects	221 mg/m3
	Workers	Inhalation	Acute local effects	442 mg/m3
	Workers	Skin contact	Long-term systemic effects	212 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	65,3 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	260 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	65,3 mg/m3
	Consumers	Inhalation	Acute local effects	260 mg/m3
	Consumers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	12,5 mg/kg bw/day
Ethylbenzene	Workers	Inhalation	Long-term systemic effects	77 mg/m3
	Workers	Inhalation	Acute local effects	293 mg/m3
	Workers	Skin contact	Long-term systemic effects	180 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	15 mg/m3
	Consumers	Ingestion	Long-term systemic effects	1,6 mg/kg bw/day
n-Butyl acetate	Workers	Inhalation	Acute systemic ef- fects	600 mg/m3
	Workers	Inhalation	Acute local effects	600 mg/m3
	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Inhalation	Long-term local ef- fects	300 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	300 mg/m3

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		Consumers	Inhalation	Acute local effects	300 mg/m3
		Consumers	Inhalation	Long-term systemic effects	35,7 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	35,7 mg/m3
		Consumers	Skin contact	Long-term systemic effects	11 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	11 mg/kg bw/day
		Consumers	Skin contact	Long-term systemic effects	6 mg/kg bw/day
		Consumers	Skin contact	Acute systemic ef- fects	6 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	2 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	2 mg/kg bw/day
Dimethyl ether	thyl ether	Workers	Inhalation	Long-term systemic effects	1894 mg/m3
		Consumers	Inhalation	Long-term systemic effects	471 mg/m3
Pigme	ent Blue 15	Workers	Inhalation	Long-term systemic effects	4 mg/m3
		Workers	Skin contact	Long-term systemic effects	450 mg/kg bw/day
		Consumers	Skin contact	Long-term systemic effects	225 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	45 mg/kg bw/day
Bariur	m sulfate	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
		Workers	Inhalation	Long-term systemic effects	10 mg/m3
		Consumers	Inhalation	Long-term systemic effects	10 mg/m3
		Consumers	Ingestion	Long-term systemic effects	13000 mg/k bw/day
Tolue	ne	Workers	Inhalation	Acute systemic ef- fects	384 mg/m3
		Workers	Inhalation	Acute local effects	384 mg/m3
		Workers	Skin contact	Long-term systemic effects	384 mg/kg bw/day
		Workers	Inhalation	Long-term systemic effects	192 mg/m3
		Workers	Inhalation	Long-term local ef- fects	192 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	226 mg/m3
		Consumers	Inhalation	Acute local effects	226 mg/m3
		Consumers	Skin contact	Long-term systemic effects	226 mg/kg bw/day

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		Consumers	Inhalation	Long-term systemic effects	56,5 mg/m	
		Consumers	Ingestion	Long-term systemic effects	8,13 mg/kg bw/day	
		Consumers	Inhalation	Long-term local ef- fects	56,5 mg/m	
Predi	cted No Effect Co	oncentration (P	NEC) according to	Regulation (EC) No.	1907/2006:	
Subst	ance name	Env	rironmental Compar	rtment	Value	
Xylen	е	Fre	sh water		0,327 mg/l	
		Inte	rmittent use/release	9	0,327 mg/l	
		Mar	ine water		0,327 mg/l	
		Sev	vage treatment plar	nt	6,58 mg/l	
			sh water sediment		12,46 mg/kg c	
		Mar	ine sediment		weight (d.w.) 12,46 mg/kg c	
					weight (d.w.)	
		Soil			2,31 mg/kg dr	
					weight (d.w.)	
Ethylk	penzene		Fresh water		0,1 mg/l	
		Free	shwater - intermitte	nt	0,1 mg/l	
		Mar	ine water		0,01 mg/l	
		Sev	vage treatment plar	nt	9,6 mg/l	
		Free	sh water sediment		13,7 mg/kg dr	
					weight (d.w.)	
		Mar	ine sediment		1,37 mg/kg dr	
					weight (d.w.)	
		Soil			2,68 mg/kg dr	
		0			weight (d.w.)	
			I (Secondary Poiso	ning)	20 mg/kg food	
n-But	yl acetate		sh water		0,18 mg/l	
			Marine water		0,018 mg/l	
			Sewage treatment plant		35,6 mg/l	
			Fresh water sediment		0,981 mg/kg c weight (d.w.)	
		Mar	Aarine sediment		0,098 mg/kg c	
					weight (d.w.)	
		Soil	Soil		0,09 mg/kg dr	
					weight (d.w.)	
Dimet	thyl ether	Free	sh water		0,155 mg/l	
	-		Marine water		0,016 mg/l	
		Inte	rmittent use/release	Э	1,549 mg/l	
		Sev	vage treatment plar	nt	160 mg/l	
			sh water sediment		0,681 mg/kg c	
					weight (d.w.)	
		Mar	ine sediment		0,069 mg/kg c	
					weight (d.w.)	
		Soil			0,045 mg/kg c	
					weight (d.w.)	

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		Marine sedime	ent	1 mg/kg
		Soil		1 mg/kg
Bariu	m sulfate	Fresh water		0,115 mg/l
		Sewage treatm	nent plant	62,2 mg/l
		Fresh water se		600,4 mg/kg dry weight (d.w.)
		Soil		207,7 mg/kg dry weight (d.w.)
Tolue	ene	Fresh water		0,68 mg/l
		Marine water		0,68 mg/l
		Intermittent us	e/release	0,68 mg/l
		Sewage treatm	nent plant	13,61 mg/l
		Fresh water se	diment	16,39 mg/kg dry weight (d.w.)
		Marine sedime	nt	16,39 mg/kg dry weight (d.w.)
		Soil		2,89 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Processing may form hazardous compounds (see section 10). Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation. If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

Personal protective equipment

	ci sonai protective equipin	CIII	
	ye/face protection	:	Wear the following personal protective equipment: Safety glasses Equipment should conform to DIN EN 166
F	land protection		
	Material Break through time Glove thickness Directive	:	Nitrile rubber > 30 min 0,4 mm Equipment should conform to DIN EN 374
	Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufactur- er. Wash hands before breaks and at the end of workday.
S	Skin and body protection	:	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: If assessment demonstrates that there is a risk of explosive

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		protectiv Skin con	eres or flash fires, use flame retardant antistatic e clothing. tact must be avoided by using impervious protective (gloves, aprons, boots, etc).
Resp	iratory protection	sure ass ommend	ate local exhaust ventilation is not available or expo- essment demonstrates exposures outside the rec- led guidelines, use respiratory protection. ent should conform to DIN EN 137
Fi	lter type	: Self-con	tained breathing apparatus

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	aerosol
Propellant	:	Dimethyl ether
Colour	:	blue
Odour	:	aromatic
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	-24 °C
Flammability (solid, gas)	:	Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	:	18,6 %(V)
Lower explosion limit / Lower flammability limit	:	1,1 %(V)
Flash point	:	Not applicable
Auto-ignition temperature	:	235 °C
Decomposition temperature	:	No data available
рН	:	Solvent mixture; pH value determination not possible, no aqueous solution
Viscosity Viscosity, kinematic	:	Not applicable



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S	Solubility(ie Water s	,	:	immiscible, partly	y miscible
-	Partition co	efficient: n- ter	:	Not applicable	
V	/apour pre	ssure	:	5.200 hPa (20 °C	C)
D	Density		:	0,8 g/cm³ (20 °C)
R	Relative va	pour density	:	Not applicable	
Ρ	Particle cha Particle	aracteristics size	:	Not applicable	
9.2 Ot	ther inform	mation			
E	xplosives		:	Not explosive	
C	Dxidizing p	roperties	:	The substance o	r mixture is not classified as oxidizing.
E	Evaporatio	n rate	:	Not applicable	

SECTION 10: Stability and reactivity

10.1	Reac	tivitv
	neuo	uvicy

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	 Extremely flammable aerosol. Vapours may form explosive mixture with air. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks.
10.5 Incompatible materials	

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition : Formaldehyde

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	Methanol
ECTION 11: Toxicological	information
.1 Information on hazard cla	asses as defined in Regulation (EC) No 1272/2008
Information on likely routes exposure	of : Inhalation Skin contact Ingestion Eye contact
Acute toxicity Not classified based on ava	ailable information.
Product:	
Acute inhalation toxicity	 Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Components:	
Dimethyl ether:	
Acute inhalation toxicity	: LC50 (Rat): 164000 ppm Exposure time: 4 h Test atmosphere: gas
n-Butyl acetate:	
Acute oral toxicity	: LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 21,1 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 (Rabbit): > 5.000 mg/kg
Xylene:	
Acute oral toxicity	: LD50 (Rat): 3.523 mg/kg Method: Directive 67/548/EEC, Annex V, B.1.
Acute inhalation toxicity	: Acute toxicity estimate: 11 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Expert judgement
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			Remarks: Based	d on national or regional regulation.
Acut	te dermal toxicity	:	Method: Expert	stimate: 1.100 mg/kg judgement d on national or regional regulation.
Ethy	/lbenzene:			
Acut	te oral toxicity	:	LD50 (Rat): 3.50	00 mg/kg
Acut	te inhalation toxicity	:	LC50 (Rat): 17,8 Exposure time: Test atmosphere	4 h
Acut	te dermal toxicity	:	LD50 (Rabbit): >	> 5.000 mg/kg
Tolu	iene:			
Acut	te oral toxicity	:	LD50 (Rat): > 5	000 mg/kg
Acut	te inhalation toxicity	:	LC50 (Rat): 28, Exposure time: Test atmosphere	4 h
Acut	te dermal toxicity	:	LD50 (Rabbit): >	> 5.000 mg/kg
Bari	um sulfate:			
Acut	te oral toxicity	:	LD50 (Rat): > 5.	000 mg/kg
	corrosion/irritation classified based on ava	ilable	information.	
Proc	duct:			
Res	ult	:	Repeated expos	sure does not cause skin dryness or cracking.
Con	nponents:			
	utyl acetate:			
Spe Res		:	Rabbit No skin irritation	
Asse	essment	:	Repeated expos	sure may cause skin dryness or cracking.
Xyle	ene:			
Spec Res		:	Rabbit Skin irritation	
Tolu	iene:			
Spe	cies	:	Rabbit	
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Method : Directive 67/548/EEC, Annex V, B.4. Result : Skin irritation Barium sulfate: : Skin irritation Species : reconstructed human epidermis (RhE). Method : OECD Test Guideline 439 Remarks : Based on data from similar materials Result : No skin irritation Serious eye damage/eye irritation No tassified based on available information. Components: . n-Butyl acetate: . Species : Result : No eye irritation Result : Method : OECD Test Guideline 405 Result : Species : Result : No eye irritation Method : Species : Species : Result : Irritation to eyes, reversing within 21 days Toluene: . Species : Species : <tr< th=""><th><u>)</u></th></tr<>	<u>)</u>
Species : reconstructed human epidermis (RhE) Method : OECD Test Guideline 439 Remarks : Based on data from similar materials Result : No skin irritation Serious eye damage/eye irritation Not classified based on available information. Not classified based on available information. Components: n-Butyl acetate: . Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Xylene: . Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: . Species : Rabbit	
Method : OECD Test Guideline 439 Remarks : Based on data from similar materials Result : No skin irritation Serious eye damage/eye irritation Not classified based on available information. Components: n-Butyl acetate: Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Xylene: : No eye irritation Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: : Rabbit	
Remarks:Based on data from similar materialsResult:No skin irritationSerious eye damage/eye irritation	
Result : No skin irritation Serious eye damage/eye irritation Not classified based on available information. Components: n-Butyl acetate: Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Xylene: : Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: : Species : Rabbit	
Serious eye damage/eye irritation Not classified based on available information. Components: n-Butyl acetate: Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Xylene: : No eye irritation Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: : Rabbit Species : Rabbit	
Not classified based on available information. Components: n-Butyl acetate: Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Xylene: : Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: : Rabbit Species : Rabbit	
Components: n-Butyl acetate: Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Xylene: : Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: : Rabbit Species : Rabbit	
n-Butyl acetate: Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Xylene: : Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: : Species : Rabbit	
Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Xylene: : Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: : Species : Rabbit Species : Rabbit Species : Rabbit	
Method : OECD Test Guideline 405 Result : No eye irritation Xylene: . Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: . Species : Rabbit	
Result : No eye irritation Xylene:	
Xylene: Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: Species Species : Rabbit	
Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene: Species Species : Rabbit	
Species : Rabbit Result : Irritation to eyes, reversing within 21 days Toluene:	
Result : Irritation to eyes, reversing within 21 days Toluene: Species Species : Rabbit	
Species : Rabbit	
Result : No eye irritation	
Barium sulfate:	
Species : Rabbit	
Method : OECD Test Guideline 405	
Result : No eye irritation	
Respiratory or skin sensitisation	
Skin sensitisation	
Not classified based on available information.	
Respiratory sensitisation	
Not classified based on available information.	
Components:	
n-Butyl acetate:	
Test Type : Maximisation Test	
Exposure routes : Skin contact	
Species : Guinea pig	
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I	Result		:	negative	
- !	Xylene Test Ty Exposu Species Result	rpe ire routes	: : :	Local lymph node Skin contact Mouse negative	assay (LLNA)
- 	Toluen Test Ty Exposu Species Method Result	pe re routes s	:	Maximisation Test Skin contact Guinea pig Directive 67/548/E negative	t EEC, Annex V, B.6.
- - - - - -	Test Ty	re routes		Local lymph node Skin contact Mouse OECD Test Guide negative Based on data fro	
I	Not cla	ell mutagenicity ssified based on availa ments:	ble	information.	
		yl ether: xicity in vitro	:	Test Type: Bacter Method: OECD Te Result: negative	ial reverse mutation assay (AMES) est Guideline 471
				Test Type: Chrom Method: OECD Te Result: negative	osome aberration test in vitro est Guideline 473
				Test Type: In vitro Method: OECD Te Result: negative	o mammalian cell gene mutation test est Guideline 476
(Genoto	xicity in vivo	:	Test Type: Sex-lir anogaster (in vivo Application Route Result: negative	
	-	l acetate: xicity in vitro	:	Test Type: Bacter	ial reverse mutation assay (AMES)

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		Result: negativ	/e
Xyler	ne:		
-	toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) /e
		Test Type: Ch Result: negativ	romosome aberration test in vitro /e
		Test Type: In v Result: negativ	vitro mammalian cell gene mutation test ve
		Test Type: In v malian cells Result: negativ	vitro sister chromatid exchange assay in mam-
Geno	toxicity in vivo	Species: Mous	ute: Skin contact
Ethyl	benzene:		
Geno	toxicity in vitro	: Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) /e
			vitro mammalian cell gene mutation test D Test Guideline 476 ve
		Test Type: Ch Result: negativ	romosome aberration test in vitro /e
Geno	toxicity in vivo		scheduled DNA synthesis (UDS) test with er cells in vivo se
			oute: Inhalation D Test Guideline 486 /e
Tolue	ene:		
Geno	toxicity in vitro	: Test Type: In v Result: negativ	vitro mammalian cell gene mutation test ve
		Test Type: Ba Result: negativ	cterial reverse mutation assay (AMES) /e
Geno	toxicity in vivo		tagenicity (in vivo mammalian bone-marrow st, chromosomal analysis)

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		Application F Result: nega	Route: Intraperitoneal injection tive
		Species: Mo Application F	toute: inhalation (vapour) DD Test Guideline 478
Poriu	ım sulfate:		
	otoxicity in vitro	Result: nega	acterial reverse mutation assay (AMES) tive sed on data from similar materials
		Result: nega	hromosome aberration test in vitro tive sed on data from similar materials
		Method: OE0 Result: nega	r vitro mammalian cell gene mutation test CD Test Guideline 476 tive sed on data from similar materials
Not c	inogenicity lassified based on ava ponents:	ilable information.	
Dime	thyl ether:		
	cation Route sure time	: Rat : inhalation (va : 2 Years : negative	apour)
Xyler	ne:		
Spec Appli	ies cation Route sure time	: Rat : Ingestion : 103 weeks : negative	
Ethy	benzene:		
	cation Route sure time It	: Rat : inhalation (va : 104 weeks : positive : The mechan mans.	apour) ism or mode of action may not be relevant in hu-

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Tolu	Jene:	
	lication Route osure time	: Rat : inhalation (vapour) : 103 weeks : negative
Арр	cies lication Route osure time ult	 Mouse Skin contact 24 Months negative
Bari	ium sulfate:	
App Exp Res	cies lication Route osure time ult narks	 Rat Ingestion 2 Years negative Based on data from similar materials
•	roductive toxicity classified based on avai	lable information.
<u>Con</u>	nponents:	
Dim	ethyl ether:	
Effe	cts on fertility	: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: inhalation (vapour) Result: negative
Effe mer	cts on foetal develop- It	: Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative
n-B	utyl acetate:	
Effe	cts on fertility	 Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapour) Method: OECD Test Guideline 416 Result: negative
Effe mer	cts on foetal develop- It	: Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative
Xyle	ene:	
Effe	cts on fertility	: Test Type: One-generation reproduction toxicity study
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		Species: Ra Application Result: neg	Route: inhalation (vapour)
Effec ment	ts on foetal develop-	Species: R	Route: inhalation (vapour)
Ethvl	benzene:		
-	ts on fertility	Species: Ra Application	Route: inhalation (vapour) CD Test Guideline 416
Effec ment	ts on foetal develop-	Species: Ra Application	Route: Inhalation CD Test Guideline 414
Tolue	ene:		
Effec	ts on fertility	Species: Ra Application	Route: inhalation (vapour) CD Test Guideline 416
Effec ment	ts on foetal develop-	Species: R	Route: inhalation (vapour)
Repro sessr	oductive toxicity - As- nent	: Some evide animal exp	ence of adverse effects on development, based on eriments.
Bariu	ım sulfate:		
	ts on fertility	Species: Ra Application Result: neg	Route: Ingestion
Effec ment	ts on foetal develop-	Species: Ra Application	Route: Ingestion CD Test Guideline 414

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		Remarks: Based on data from similar materials
	T - single exposure cause drowsiness or diz	ziness.
Com	ponents:	
Dim	ethyl ether:	
	essment	: May cause drowsiness or dizziness.
n-Bı	ityl acetate:	
Asse	essment	: May cause drowsiness or dizziness.
Xyle	ne:	
Asse	essment	: May cause respiratory irritation.
Tolu	ene:	
Asse	essment	: May cause drowsiness or dizziness.
Not	T - repeated exposure classified based on avail pponents:	able information.
Xyle	ne:	
Targ	osure routes et Organs essment	 inhalation (vapour) Auditory system Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.
Ethy	Ibenzene:	
Expo Targ	osure routes et Organs essment	 inhalation (vapour) Auditory system Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.
Tolu	ene:	
Targ	osure routes et Organs essment	 Inhalation Central nervous system May cause damage to organs through prolonged or repeated exposure.
Bari	um sulfate:	
	essment	: No significant health effects observed in animals at concentra- tions of 100 mg/kg bw or less.

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Repe	ated dose toxicity		
<u>Com</u>	oonents:		
Dime	thyl ether:		
Speci	es	: Rat	
NOAE		: 47,11 mg/l	
	cation Route	: inhalation (vapo	ur)
Expo	sure time	: 2 yr	
n-But	yl acetate:		
Speci	es	: Rat	
NOAE		: 2,4 mg/l	
	cation Route	: inhalation (vapo	ur)
Expo	sure time	: 90 Days	
Xyler	ie:		
Speci	es	: Rat	
LÖAE		: > 0,2 - 1 mg/l	
	cation Route	: inhalation (vapo	ur)
	sure time	: 13 Weeks	
Rema	arks	: Based on data f	rom similar materials
Speci		: Rat	
LOAE		: 150 mg/kg	
	cation Route	: Ingestion	
Expo	sure time	: 90 Days	
Ethyl	benzene:		
Speci		: Rat	
LOAE		: 0,868 mg/l	
	cation Route	: inhalation (vapo	ur)
Expo	sure time	: 13 Weeks	
Speci		: Rat	
NOA		: 75 mg/kg	
LOAE		: 250 mg/kg	
Applic	cation Route	: Ingestion : OECD Test Gui	deline 408
weth		. OECD Test Gui	
Tolue			
Speci		: Rat	
LOAE		: 1,875 mg/l	
	cation Route sure time	: inhalation (vapo : 6 Months	ur <i>)</i>
Speci		: Rat	
NOA		: 625 mg/kg : Ingestion	
Applic	cation Route	. ingesuon	



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Expos	sure time	: 13 Weeks	
Bariu	m sulfate:		
Species		: Rat	
NOAEL		: 61,1 mg/kg	
Application Route		: Ingestion	
Exposure time		: 90 Days	
Rema		: Based on data from	m similar materials

Aspiration toxicity

Not classified based on available information.

Components:

Xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Ethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Toluene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

2

Components:

Toluene:

Inhalation

Target Organs: Central nervous system Symptoms: Neurological disorders



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SECTION 12: Ecological information

12.1 Toxicity

Components:

Components:		
Dimethyl ether: Toxicity to fish	:	
Toxicity to daphnia and other	:	Exposure time: 96 h EC50 (Daphnia magna (Water flea)): > 4.400 mg/l
aquatic invertebrates		Exposure time: 48 h
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): > 1.600 mg/l
n-Butyl acetate: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 18 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia sp. (water flea)): 44 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 397 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		NOEC (Pseudokirchneriella subcapitata (green algae)): 196 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to microorganisms	:	IC50 (Tetrahymena pyriformis): 356 mg/l Exposure time: 40 h
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 23,2 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
Xylene:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 13,5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 24 h

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				Method: OECD To Remarks: Based o	est Guideline 202 on data from similar materials
	Toxicity plants	to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 10 mg/l 2 h
	Toxicity	to microorganisms	:	NOEC : > 100 mg Exposure time: 3 Method: OECD To Remarks: Based of	h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: > 0,1 - < 1 Exposure time: 35 Species: Danio re Method: OECD To Remarks: Based of	5 d rio (zebra fish)
		to daphnia and other invertebrates (Chron- ty)	:	Method: OECD To	l d magna (Water flea)
	Ethylbe	enzene:			
	Toxicity		:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 1,8 - 2,4 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 96	chneriella subcapitata (green algae)): 3,6 Sh
				NOEC (Pseudokir mg/l Exposure time: 96	rchneriella subcapitata (green algae)): 3,4 S h
	Toxicity	to microorganisms	:	EC50 (Nitrosomor Exposure time: 24	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0,96 mg/l Exposure time: 7 Species: Cerioda	d bhnia dubia (water flea)
	Toluen	e:			
	Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96	hus kisutch (coho salmon)): 5,5 mg/l } h



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		to daphnia and other invertebrates	:	: EC50 (Ceriodaphnia dubia (water flea)): 3,78 mg/l Exposure time: 48 h				
	Toxicity to algae/aquatic plants		:	: NOEC (Skeletonema costatum (marine diatom)): 10 mg/l Exposure time: 72 h				
	Toxicity	to microorganisms	:	EC50 (Nitrosomor Exposure time: 24	., .			
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 1,39 mg/l Exposure time: 40 Species: Oncorhy) d nchus kisutch (coho salmon)			
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0,74 mg/l Exposure time: 7 Species: Ceriodap	d ohnia dubia (water flea)			
	Barium	sulfate:						
	Toxicity		:	Exposure time: 96 Method: OECD Te				
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 10 - 100 mg/l 3 h on data from similar materials			
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te				
				mg/l Exposure time: 72 Method: OECD Te				
	Toxicity	to microorganisms	:	EC50 : > 600 mg/ Exposure time: 3 Method: OECD Te Remarks: Based o	h			
				NOEC : > 600 mg Exposure time: 3 Method: OECD Te Remarks: Based o	h			
		to daphnia and other invertebrates (Chron-	:	NOEC: > 1 mg/l Exposure time: 21	d			

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ic tox	icity)		es: Daphnia magna (Water flea) ks: Based on data from similar materials
12.2 Pers	istence and degrada	bility	
Com	ponents:		
Dime	thyl ether:		
Biode	egradability	Biodeç Expos	: Not readily biodegradable. jradation: 5 % ure time: 28 d d: OECD Test Guideline 301D
n-Bu	tyl acetate:		
Biode	egradability	Biodeç Expos	: Readily biodegradable. jradation: 83 % ure time: 28 d d: OECD Test Guideline 301D
Xyler			
-	egradability	Biodeo Expos Metho	: Readily biodegradable. gradation: > 70 % ure time: 28 d d: OECD Test Guideline 301F ks: Based on data from similar materials
Ethvl	lbenzene:		
-	egradability	Biodeg	: Readily biodegradable. Jradation: 70 - 80 % Jre time: 28 d
Tolue	ene.		
	egradability	Biodeg	: Readily biodegradable. Jradation: 80 % ure time: 20 d
12.3 Bioa	ccumulative potentia	ıl	
Com	ponents:		
Dime	thyl ether:		
Partit	ion coefficient: n- ol/water	: log Po	w: 0,2
	tyl acetate:		
	ion coefficient: n- ol/water	: log Po	w: 2,3
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Xylei	ne:					
	tion coefficient: n- nol/water	:	log Pow: 3,16 Remarks: Calcul	lation		
Ethy	Ibenzene:					
	tion coefficient: n- nol/water	:	: log Pow: 3,6			
Tolu	ene:					
Bioad	ccumulation	:		cus idus (Golden orfe) n factor (BCF): 90		
	tion coefficient: n- nol/water	:	: log Pow: 2,73			
Bariu	um sulfate:					
Bioad	ccumulation	:		is macrochirus (Bluegill sunfish) n factor (BCF): < 500		
	tion coefficient: n- nol/water	:	log Pow: -1,03 Remarks: Calcul	lation		

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Ρ	r	ο	d	u	С	t	

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product. Please ensure aerosol cans are sprayed completely empty (including propellant)
Waste Code	:	The following Waste Codes are only suggestions:
		used product 16 05 04, gases in pressure containers (including halons) containing hazardous substances 08 01 11, waste paint and varnish containing organic solvents or other hazardous substances
		unused product 16 05 04, gases in pressure containers (including halons) containing hazardous substances 08 01 11, waste paint and varnish containing organic solvents or other hazardous substances
		uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances
"		Acc. Packaging Act properly emptied packaging: Properly emptied, non-contaminated packaging of non- hazardous products can be supplied to a system for the col- lection of sales packaging.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	: UN 1950
ADR	: UN 1950

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	RID		:	UN 1950				
	IMDG		:	UN 1950				
	ΙΑΤΑ		:	UN 1950				
14.2	2 UN pr	oper shipping name						
	ADN		:	AEROSOLS				
	ADR		:	AEROSOLS				
	RID		:	AEROSOLS				
	IMDG		:	AEROSOLS				
	ΙΑΤΑ		:	Aerosols, flamma	ble			
14.3	B Trans	port hazard class(es)						
				Class	Subsidiary risks			
	ADN		:	2	2.1			
	ADR		:	2	2.1			
	RID		:	2	2.1			
	IMDG		:	2.1				
	ΙΑΤΑ		:	2.1				
14.4	l Packii	ng group						
	ADN							
		ig group fication Code	:	Not assigned by	egulation			
	Labels		:	5F 2.1				
	ADR							
		ig group fication Code	:	Not assigned by I 5F	egulation			
	Labels		:	эг 2.1				
	Tunne	I restriction code	:	(D)				
	RID			Not oppigned by	regulation			
		ig group fication Code	:	Not assigned by I 5F	egulation			
		d Identification Number	:	20				
	Labels		•	2.1				
		ig group	:	Not assigned by i	egulation			
	Labels EmS C		:	2.1 F-D, S-U				
			•	F-D, 3-0				
	Packin	Cargo) og instruction (cargo	:	203				
	aircraft Packin	t) g instruction (LQ)		Y203				
		ig group	:	Not assigned by i	egulation			



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	Labels		:	Flammable Gas	
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels		:	203 Y203 Not assigned by r Flammable Gas	regulation	
14.5 Environmental hazards					
	ADN Enviror	nmentally hazardous	:	no	
	ADR Enviror	nmentally hazardous	:	no	
	RID Enviror	nmentally hazardous	:	no	
	IMDG Marine	pollutant	:	no	

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75 If you intend to use this product as tattoo ink, please contact your ven- dor. Toluene (Number on list 48)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable



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ment	lation (EC) No 649/2012 and the Council concer ngerous chemicals				Not applicable		
	REACH - List of substances subject to authorisation : Not applicable (Annex XIV)						
	so III: Directive 2012/18 r-accident hazards invol				and of the Council	on the control of	
P3a		Ū	FLAMMABLE AE	ROSOLS	Quantity 1 150 t	Quantity 2 500 t	
Wate ny)	r hazard class (Germa-	:	WGK 2 obviously Classification acc		s to water wSV, Annex 1 (5	.2)	
Volat	ile organic compounds	:	Directive 2004/42 VOC content in g Product sub-cate Coatings: All type VOC limit level 1	/l: 669 g/l gory: Spec es			
			emissions (integr	ated polluti	November 2010 o ion prevention and (VOC) content: 8 uding water	d control)	

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements H220 H225 H226 H280		Extremely flammable gas. Highly flammable liquid and vapour. Flammable liquid and vapour. Contains gas under pressure; may explode if heated.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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H304 H312 H315 H319 H332 H335 H336 H361 H373 H412		 Harmful in con Causes skin in Causes seriou Harmful if inha May cause res May cause dro Suspected of o May cause dar exposure. 	ritation. s eye irritation.
EUHC	066		osure may cause skin dryness or cracking.
Full t	ext of other abbreviati	ons	
Acute Aquat Asp. ⁻ Eye Ir Flam. Flam. Flam. Press Repr. Skin I STOT STOT 2000/	Tox. tic Chronic Fox. rit. Gas Liq. . Gas rrit.	 Acute toxicity Long-term (chr Aspiration haze Eye irritation Flammable gas Flammable liqu Gases under p Reproductive t Skin irritation Specific target Europe. Comm list of indicative Europe. Direct from the risks 	ses uids ressure
2019/ DE TI DE TI TRGS 2000/ 2000/ 2004/ 2004/ 2006/ 2006/ 2006/ 2019/ 2019/ DE TI	15/EC 1831/EU RGS 527 RGS 900 3903 39/EC / TWA 39/EC / STEL 37/EC / STEL 37/EC / TWA 15/EC / TWA 15/EC / TWA 15/EC / STEL 1831/EU / TWA 1831/EU / STEL RGS 527 / BM RGS 900 / AGW	 Europe. Comm fifth list of indic Germany. TRC Germany. TRC 	osure limit osure limit ight hours osure limit ight hours osure limit cale

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-

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tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergencv Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Classification of the mixture:		Classification procedure:
Aerosol 1	H222, H229	Based on product data or assessment
STOT SE 3	H336	Calculation method

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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