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

Carsystem 2K-High Speed Klarlack

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1.2	DE / EN	20.02.2024	Date of first issue: 08.06.2022

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

1.1 Product identi	fier	
Trade name	:	Carsystem 2K-High Speed Klarlack
Product code	:	149.421
1.2 Relevant ident	ified uses of the s	substance or mixture and uses advised against
Use of the Sub stance/Mixture	-	Solvent-borne coatings
Recommender on use	d restrictions :	Reserved for industrial and professional use. Industrial use, professional use
1.3 Details of the	supplier of the sa	afety data sheet
Company	:	JASA AG Müslistrasse 43 8957 Spreitenbach Schweiz
		info@jasa-ag.ch, www.jasa-ag.ch
Telephone Telefax	:	+41 (0)44 431 60 70 +41 (0)44 432 63 17
Responsible	Department :	Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

1.4 Emergency telephone

Telephone	: Tox Info Suisse (STIZ), Tel: 145
relephone	

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting ef- fects.

2.2 Label elements

Labelling (REGULATION (Hazard pictograms	(EC) :	No 1272/200	
Signal Word	:	Danger	
Hazard Statements	:	H222 H229 H317 H319 H336 H412	Extremely flammable aerosol. Pressurised container: May burst if heated. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH066	Repeated exposure may cause skin dryness or cracking.
			Buildup of explosive mixtures possible without sufficient ventilation.
Precautionary Statements	:	Preventior	1:
		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 P261	Do not pierce or burn, even after use. Avoid breathing mist.

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			Use only outdoors or in a well-ventilated area. Avoid release to the environment.
		Response:	
			IF ON SKIN: Wash with plenty of soap and water.
		t	+ P338 IF IN EYES: Rinse cautiously with wa- ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P312 0	Call a POISON CENTER/ doctor if you feel un- well.
		P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
		P337 + P313	If eye irritation persists: Get medical advice/ attention.
		Storage:	
		P410 + P412	Protect from sunlight. Do not expose to tem- peratures exceeding 50 °C/ 122 °F.
		Disposal:	
		f	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Hazardous ingredients which must be listed on the label:

acetone n-butyl acetate Hexamethylene-di-isocyanate, polymer Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6pentamethyl-4-piperidyl sebacate

Additional Labeling

EUH204

Contains isocyanates. May produce an allergic reaction.

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

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Chemical nature	: aerosol			
contains butane propane				
Components				
Chemical name	CAS-No. EC-No. Index-No. Registration numbe	Classification	Concentrati (% w/w)	
acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 10 - < 2	
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066	>= 5 - < 1	
xylene	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; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Central nervous system, Liver, Kid- ney) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Acute toxicity esti- mate Acute inhalation tox- icity (vapor): 11 mg/l	>= 5 - < 1	
2-methoxy-1-methylethyl aceta	ate 108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous	>= 2,5 - < 7	
Hydrocarbons, C9, Aromatics	Not Assigned 918-668-5 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336	>= 2,5 - <	

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		(Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	
Hexamethylene-di-isocyanate, polymer	28182-81-2 500-060-2 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) Acute toxicity esti- mate Acute inhalation tox- icity (dust/mist): 1,5 mg/l	>= 2,5 - <
2-butoxyethyl acetate	112-07-2 203-933-3 607-038-00-2 01-2119475112-47	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H312 Acute toxicity esti- mate Acute oral toxicity: 1.880 mg/kg Acute inhalation tox- icity (vapor): 11 mg/l Acute dermal toxicity: 1.500 mg/kg	>= 1 - < 2
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate		Skin Sens. 1A; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0
Substances with a workplace expo			
dimethyl ether	115-10-6 204-065-8 603-019-00-8 01-2119472128-37	Flam. Gas 1A; H220 Press. Gas Compr. Gas; H280	>= 10 - < 2

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid mean	4.1 Description of first-aid measures				
General advice		First aider needs to protect himself. Remove from exposure, lie down. If unconscious, place in recovery position and seek medical advice. Take off contaminated clothing and shoes immediately. Symptoms of poisoning may appear several hours later.			
If inhaled	:	Move to fresh air. If symptoms persist, call a physician.			
In case of skin contact	:	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.			
In case of eye contact	:	In case of eye contact, remove contact lens and rinse imme- diately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.			
If swallowed	:	Swallowing is not regarded as a possible method for expo- sure. If symptoms persist, call a physician.			
4.2 Most important symptoms and effects, both acute and delayed					
Risks	:	May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.			
4.3 Indication of any immediate medical attention and special treatment needed					

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Carbon dioxide (CO2) Dry powder Water spray jet Alcohol-resistant foam
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire	:	Vapors may form explosive mixtures with air.
fighting		Build-up of dangerous/toxic fumes possible in cases of

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			fire/high temperat	ure.		
	Hazardous combustion prod- ucts	:	Carbon monoxide bons (smoke).	e, carbon dioxide and unburned hydrocar-		
5.3	5.3 Advice for firefighters					
	Special protective equipment for fire-fighters	:	Use personal pro protection equipm	tective equipment. Wear suitable respiratory nent.		
	Further information	:	cumstances and Fire residues and be disposed of in Use water spray	measures that are appropriate to local cir- the surrounding environment. contaminated fire extinguishing water must accordance with local regulations. o cool unopened containers. e and/or explosion do not breathe fumes.		

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Avoid inhalation of vapor or mist. Avoid contact with skin, eyes and clothing.	۱.
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6.2 Environmental precautions

Environmental precautions	:	Should not be released into the environment. If the product contaminates rivers and lakes or drains inform respective authorities
		respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Ventilate the area.
		Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling							
Local/Total ventilation :	:	Ensure adequate ventilation.					
Advice on safe handling :	:	Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C / 122 °F. Also after use, do not open with force or burn. Provide sufficient air exchange and/or exhaust in work rooms.					

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		on protection against explosion	:	Keep away from o	naked flame or any incandescent material. open flames, hot surfaces and sources of ay from direct sunlight.
	Hygiene	measures	:	Do not inhale aer	osol.
7.2	Conditio	ns for safe storage,	inc	luding any incom	patibilities
		ments for storage nd containers	:	containers tightly vent vapors are h	ne storage instructions for aerosols! Keep closed in a cool, well-ventilated place. Sol- eavier than air and may spread along floors. direct sunlight. Keep away from heat and n.
	Further i age con	information on stor- ditions	:	Storage must be	in accordance with the BetrSichV (Germany).
	Advice o	on common storage	:	Keep away from	ood and drink.
	Storage	class (TRGS 510)	:	2B	
7.3	Specific Specific	end use(s) 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	Further information: Indicative					
		AGW 1.000 ppm 1.900 mg/m3					
	Peak-limit ca	Peak-limit category: 8;(II)					
		MAK	1.000 ppm 1.900 mg/m3	DE DFG MAK			
	re no data for an assessme	n assessment of damage to					
	the embryo or foetus, including developmental neurotoxicity, or the currentl						
	available data are not sufficient for classification in one of the groups A - C						
acetone 67-64-1		TWA	500 ppm 1.210 mg/m3	2000/39/EC			
	Further inforr	nation: Indicative					
		AGW	500 ppm 1.200 mg/m3	DE TRGS 900			
	Peak-limit category: 2;(I)						
	Further inform	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					

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		MAK	500 ppm 1.200 mg/m3	DE DFG M			
	the embryo o		ng to currently available infor be excluded after exposure T values				
n-butyl acetate	123-86-4	STEL	150 ppm 723 mg/m3	2019/1831/ U			
	Further infor	mation: Indicativ	/e				
		TWA	50 ppm 241 mg/m3	2019/1831/ U			
	Further infor	mation: Indicativ					
		AGW	62 ppm 300 mg/m3	DE TRGS 900			
	Peak-limit ca						
		ues, there is no	nere is compliance with the C risk of harming the unborn o	child			
		MAK	100 ppm 480 mg/m3	DE DFG M			
		Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed					
xylene	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC			
	Further information: Identifies the possibility of significant uptake through skin, Indicative						
		STEL	100 ppm 442 mg/m3	2000/39/E0			
		Further information: Identifies the possibility of significant uptake through the skin, Indicative					
		AGW	50 ppm 220 mg/m3	DE TRGS 900			
	Peak-limit ca	tegory: 2;(II)					
	Further infor	mation: Skin abs	sorption				
		MAK	50 ppm 220 mg/m3	DE DFG M			
	Further information: Danger of absorption through the skin, Either there data for an assessment of damage to the embryo or foetus, including de opmental neurotoxicity, or the currently available data are not sufficient classification in one of the groups A - C						
propane	74-98-6	AGW	1.000 ppm 1.800 mg/m3	DE TRGS 900			
	Peak-limit ca	tegory: 4;(II)	<u> </u>	•			
		MAK	1.000 ppm 1.800 mg/m3	DE DFG M			
	the embryo o	or foetus, includi	nere are no data for an asses ing developmental neurotoxic ent for classification in one o	city, or the currently			
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC			
	Further infor		s the possibility of significant	uptake through th			

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		TWA	50 ppm 275 mg/m3	2000/39/EC				
	Further inforr skin, Indicativ		the possibility of significant upt	ake through the				
		AGW	50 ppm 270 mg/m3	DE TRGS 900				
	Peak-limit ca	tegory: 1;(I)						
	Further inform	mation: When the	re is compliance with the OEL sk of harming the unborn child					
		MAK	50 ppm 270 mg/m3	DE DFG MAK				
		Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed						
butane (containing < 0,1 % butadiene (203-450-8))		AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900				
	Peak-limit ca	Peak-limit category: 4;(II)						
isobutane (< 0,1% 1,3-butadiene (203-450-8))		AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900				
	Peak-limit ca	Peak-limit category: 4;(II)						
2-butoxyethyl ace tate	112-07-2	TWA	20 ppm 133 mg/m3	2000/39/EC				
		Further information: Identifies the possibility of significant uptake through the skin, Indicative						
		STEL	50 ppm 333 mg/m3	2000/39/EC				
		Further information: Identifies the possibility of significant uptake through the skin, Indicative						
		AGW (Vapour and aerosols)	10 ppm 65 mg/m3	DE TRGS 900				
	Peak-limit ca	Peak-limit category: 2;(I)						
		Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child						
		MAK	10 ppm 66 mg/m3	DE DFG MAK				
	Further inforr embryo or foo served	Further information: Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is ob-						

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
acetone	67-64-1	Acetone: 50 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
		Acetone: 50 mg/l (Urine)	Immediately after exposition or after working hours	DE DFG BAT
xylene	1330-20-7	methylhippuric acid (all isomers): 2.000 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903

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			Methylhippuric acid (toluric acid) (all isomers): 2.000 mg/l (Urine)	Immediately after exposition or after working hours	DE DFG BAT
	2-butoxyethyl acetate	112-07-2	butoxy acetic acid: 150 mg/g creati- nine (Urine)	In case of long- term exposure: after more than one shift, Immedi- ately after expo- sure or after work- ing hours	TRGS 903
			butoxy acetic acid: 150 mg/g creati- nine (Urine)	end of shift, for long-term expo- sures after several previous shifts, Immediately after exposition or after working hours	DE DFG BAT

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

Substance name	End Use	Routes of expo- sure	Potential health ef- fects	Value
acetone	Workers	Inhalation	Long-term systemic effects	1210 mg/m3
	Workers	Inhalation	Long-term local ef- fects	2420 mg/m3
	Workers	Skin contact	Long-term systemic effects	186 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	200 mg/m3
	Consumers	Skin contact, Oral	Long-term systemic effects	62 mg/kg bw/day
n-butyl acetate	Workers	Inhalation	Long-term systemic effects, Long-term local effects	300 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	600 mg/m3
	Workers	Dermal	Long-term systemic effects, Acute sys- temic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	35,7 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	300 mg/m3
	Consumers	Dermal	Long-term systemic effects, Acute sys- temic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects, Acute sys- temic effects	2 mg/kg bw/day
xylene	Workers	Inhalation	Long-term systemic	221 mg/m3

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			effects, Long-term local effects	
	Workers	Inhalation	Acute systemic ef- fects, Acute local effects	442 mg/m3
	Workers	Skin contact	Long-term systemic effects	212 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	65,3 mg/m
	Consumers	Inhalation	Acute systemic ef- fects, Acute local effects	260 mg/m3
	Consumers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	12,5 mg/kg bw/day
2-methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Skin contact	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Skin contact	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
Hydrocarbons, C9, Aromatics	Workers	Inhalation	Long-term systemic effects	150 mg/m3
	Workers	Skin contact	Long-term systemic effects	25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
Hexamethylene-di- isocyanate, polymer	Workers	Inhalation	Long-term local ef- fects	0,5 mg/m3
	Workers	Inhalation	Acute local effects	1 mg/m3
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4- piperidyl sebacate	Workers	Inhalation	Long-term systemic effects	0,68 mg/m
	Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,17 mg/m
	Consumers	Dermal	Long-term systemic	0,25 mg/kg

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	I			effec	cts	bw/day
	Consumer	ſS	Oral	Long	g-term systemic	0,05 mg/k bw/day
Predicted No Eff	ect Concentratio	on (PN	EC) accord	ng to Regul	ation (EC) No.	1907/2006:
Substance name		Envir	onmental Co	mpartment		Value
acetone		Fresh	n water			10,6 mg/l
		Sea v				1,06 mg/l
		Sewa	ige treatmen	t plant (STP)		100 mg/l
		Fresh	n water sedir	nent		30,4 mg/kg di weight (d.w.)
		Sea s	sediment			3,04 mg/kg di
						weight (d.w.)
		Soil				29,5 mg/kg di weight (d.w.)
n-butyl acetate			n water			0,18 mg/l
		Sea v				0,018 mg/l
		Fresh	n water sedir	nent		0,981 mg/kg
						weight (d.w.)
		Sea s	sediment			0,098 mg/kg
		_				weight (d.w.)
			ige treatmen	t plant (STP))	35,6 mg/l
		Soil				0,09 mg/kg di
						weight (d.w.)
xylene			n water			0,327 mg/l
		Sea v				0,327 mg/l
		Fresh	n water sedir	nent		12,46 mg/kg
		S	sediment			weight (d.w.)
		Seas	seument			12,46 mg/kg o weight (d.w.)
		Soil				2,31 mg/kg di
		301				weight (d.w.)
		Sowa	ao troatmon	t plant (STP)	\	6,58 mg/l
2-methoxy-1-meth	vlethvl acetate		n water		/	0,635 mg/l
2 methoxy i met	Tyletily addiate	Sea v				0,064 mg/l
				t plant (STP))	100 mg/l
		Sewage treatment plant (STP) Fresh water sediment				3,29 mg/kg di
						weight (d.w.)
		Sea s	sediment			0,329 mg/kg
						weight (d.w.)
		Soil				0,29 mg/kg di
						weight (d.w.)
Hexamethylene-d polymer	i-isocyanate,	Fresh	n water			0,1 mg/l
		Sea v	water			0,01 mg/l
		Sewa	ige treatmen	t plant (STP)		100 mg/l
			n water sedir			2530 mg/kg
		Sea s	sediment			253 mg/kg
		Soil				505 mg/kg
Reaction mass of pentamethyl-4-pip cate and Methyl 1	oeridyl) seba-	Fresh	n water			0,002 mg/l

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	pentamethyl-4-piperidyl seba	acate			
			Fresh water se	ediment 1,05 mg/kg dry weight (d.w.)	
			Sea sediment	0,11 mg/kg dry weight (d.w.)	
			Soil	0,21 mg/kg dry weight (d.w.)	
8.2	Exposure controls				
	Personal protective equip	ment			
	Eye/face protection	:	Tightly fitting safe Safety glasses w	fety goggles with side-shields conforming to EN166	
	Hand protection				
	Material	:	Nitrile rubber		
	Directive	:	DIN EN 374		
	Material	:	butyl-rubber		
	Glove thickness	:	0,7 mm		
	Directive	:	DIN EN 374		
	Wearing time	:	15 min		
	Remarks	:	its material but a from one produc can be obtained	n appropriate glove does not only depend on also on other quality features and is different cer to the other. The exact break through time I from the protective glove producer and this ved. Preventive skin protection	
	Skin and body protection	:		table protective clothing, e.g. made of cotton t synthetic fibres.	

		Long sleeved clothing
Respiratory protection :		No personal respiratory protective equipment normally re- quired. In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Filter type	:	Filter type A-P
Protective measures	:	Use only with adequate ventilation.

Protective measures	:	Use only with adequate ventilation.
		When using do not eat, drink or smoke.
		Avoid contact with skin, eyes and clothing.
		Do not breathe vapors or spray mist.

Environmental exposure controls						
Soil	:	Avoid subsoil penetration.				
Water	:	Do not flush into surface water or sanitary sewer system.				

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

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	aerosol
Color	:	transparent
Odor	:	characteristic
Odor Threshold	:	not determined
Melting point/range	:	No data available
Boiling point/boiling range	:	-44 °C
Upper explosion limit / Upper flammability limit	:	18,6 %(V)
Lower explosion limit / Lower flammability limit	:	2,6 %(V)
Flash point	:	< 0 °C Flash point is only valid for liquid portion in the aerosol can.
Autoignition temperature	:	235 °C
рН	:	Not applicable substance/mixture reacts with water
Viscosity Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Solubility(ies) Water solubility	:	immiscible
Partition coefficient: n- octanol/water	:	No data available

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

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	Vapor pressure	: 3.400 hPa (2	0 °C)
	Density	: No data avail	able
9.2	Other information Explosives	: In use, may f	orm flammable/explosive vapour-air mixture.
		. in use, may i	
	Flammability (liquids)	: Extremely fla	mmable aerosol.
	Self-ignition	: not auto-flam	mable
	Substances and mixtures which in contact with water emit flammable gases	: Vapors may f	orm explosive mixture with air.

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Vapors may form explosive mixture with air.
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10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition. Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

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

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SECTION 11: Toxicological information

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

Acute toxicity Not classified due to lack of d	ata.	
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Components:		
acetone:		
Acute oral toxicity	:	LD50 Oral (Rat): 5.800 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): ca. 76 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 7.400 mg/kg
n-butyl acetate:		
Acute oral toxicity	:	LD50 (Rat): 10.760 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	LD50 (Rat): > 21 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 14.112 mg/kg Method: OECD Test Guideline 402
xylene:		
Acute oral toxicity	:	LD50 Oral (Rat): 3.523 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: 11 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Expert judgment

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	Acute dermal toxicity	:	LD50 (Rabbit): > 1	.700 mg/kg
	2-methoxy-1-methylethyl ac	etat	e:	
	Acute oral toxicity	:	LD50 Oral (Rat): 6 Method: OECD Te	
	Acute inhalation toxicity	:	Assessment: The tion toxicity	substance or mixture has no acute inhala-
	Acute dermal toxicity	:	LD50 Dermal (Ral Method: OECD Te	obit): > 5.000 mg/kg est Guideline 402
	Hydrocarbons, C9, Aromatic	cs:		
	Acute oral toxicity	:	LD50 Oral (Rat, fe Method: OECD Te	emale): ca. 3.492 mg/kg est Guideline 401
	Acute inhalation toxicity	:	LC50 (Rat): > 6,19 Exposure time: 4 I Test atmosphere: Method: OECD Te Assessment: The tion toxicity	n vapor
	Acute dermal toxicity	:	LD50 Dermal (Ral Method: OECD Te	obit): > 3.160 mg/kg est Guideline 402
	Hexamethylene-di-isocyana	te,	oolymer:	
	Acute oral toxicity	:	LD50 Oral (Rat): > Method: OECD Te	
	Acute inhalation toxicity	:	Acute toxicity estir Exposure time: 4 I Test atmosphere: Method: Expert jue	า dust/mist
			LC50 (Rat): 0,39 r Exposure time: 4 l Test atmosphere: Method: OECD Te	n dust/mist
	Acute dermal toxicity	:	LD50 Dermal (Rat Method: OECD Te	
	2-butoxyethyl acetate:			
	Acute oral toxicity	:	LD50 Oral (Rat): 1 Method: OECD Te	
	Acute inhalation toxicity	:	Acute toxicity estir Exposure time: 4 I Test atmosphere:	1

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		М	ethod: Expert ju	dgment	
	Acute dermal toxicity	: L[050 Dermal (Ral	obit): 1.500 mg/kg	
	Skin corrosion/irritation				
	Repeated exposure may cause	se skin	dryness or cracl	king.	
	Components:				
	xylene:				
	Result	: SI	kin irritation		
	Hydrocarbons, C9, Aromati	cs:			
	Result	: R	epeated exposu	re may cause skin dryness or cracking.	
	Hexamethylene-di-isocyana	te, pol	ymer:		
	Species		abbit		
	Assessment Method		o skin irritation ECD Test Guide	line 404	
	Causes serious eye irritation. <u>Components:</u> xylene: Result	· M	oderate eye irrita	ation	
	Result	. 101			
	Hexamethylene-di-isocyana	te, pol	ymer:		
	Species		abbit		
	Assessment Method		o eye irritation ECD Test Guide	line 405	
	Respiratory or skin sensitiz	ation			
	Skin sensitization				
	May cause an allergic skin rea	action.			
	Respiratory sensitization				
	Not classified due to lack of d	ata.			
	Components:				
	Hexamethylene-di-isocyana	te, pol	ymer:		
	Test Type		cal lymph node	assay (LLNA)	
	Routes of exposure Species	: Skin contact : Mouse			
	Assessment	: May cause sensitization by skin contact.			
	Method		: OECD Test Guideline 429		

: OECD Te : positive

Result

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

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Reaction mass of Bis(1,2,2 pentamethyl-4-piperidyl se		piperidyl) sebacate and Methyl 1,2,2,6,6-
Assessment	: The product is	a skin sensitizer, sub-category 1A.
Germ cell mutagenicity Not classified due to lack of	data.	
Components:		
Hydrocarbons, C9, Aroma	tics:	
Germ cell mutagenicity- As- sessment		ed on benzene content < 0.1% (Regulation (EC) nex VI, Part 3, Note P)
Hexamethylene-di-isocyan	ate, polymer:	
Genotoxicity in vitro	Metabolic activ Method: OECI	crobial mutagenesis assay (Ames test) vation: with and without metabolic activation D Test Guideline 471 utagenic in Ames Test.
Carcinogenicity		
Not classified due to lack of	data.	
Components:		
Hydrocarbons, C9, Aroma	tics:	
Carcinogenicity - Assess- ment		ed on benzene content < 0.1% (Regulation (EC) nex VI, Part 3, Note P)
Reproductive toxicity Not classified due to lack of	data.	
Components:		
Reaction mass of Bis(1,2,2 pentamethyl-4-piperidyl se		piperidyl) sebacate and Methyl 1,2,2,6,6-
Reproductive toxicity - As- sessment		e of adverse effects on sexual function and on animal experiments.
STOT-single exposure May cause drowsiness or di	zziness.	
Components:		
n-butyl acetate:		
Assessment	: May cause dro	wsiness or dizziness.
xylene:		
Assessment		piratory irritation.

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2-methoxy-1-methylethyl acetate:

Routes of exposure	:	Oral
Target Organs	:	Central nervous system
Assessment	:	May cause drowsiness or dizziness.

Hydrocarbons, C9, Aromatics:

Assessment	:	May cause respiratory irritation., May cause drowsiness or
		dizziness.

Hexamethylene-di-isocyanate, polymer:

Routes of exposure	:	Inhalation
Assessment	:	May cause respiratory irritation.

STOT-repeated exposure

Not classified due to lack of data.

Components:

xylene:

Target Organs	:	Central nervous system, Liver, Kidney
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Hexamethylene-di-isocyanate, polymer:

Species	:	Rat, male and female
NOAEL	:	0,0033 mg/l
Application Route	:	Inhalation
Test atmosphere	:	dust/mist
Exposure time	:	90d
Number of exposures	:	6h / d
Dose		0 - 0,0005 - 0,003 - 0,0264
Method	:	OECD Test Guideline 413

Aspiration toxicity

Not classified due to lack of data.

Components:

xylene:

May be fatal if swallowed and enters airways.

Hydrocarbons, C9, Aromatics:

May be fatal if swallowed and enters airways.

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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.

SECTION 12: Ecological information

12.1 Toxicity

Components:

acetone:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 5.540 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia pulex (Water flea)): 8.800 mg/l End point: mortality Exposure time: 48 h
Toxicity to algae/aquatic plants	:	NOEC (algae): 430 mg/l Exposure time: 96 h
Toxicity to microorganisms	:	EC10 (Bacteria): 1.000 mg/l Exposure time: 0,5 h Method: OECD Test Guideline 209
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 2.212 mg/l Exposure time: 28 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
n-butyl acetate:		
Toxicity to fish	:	(Pimephales promelas (fathead minnow)): 18 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 44 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 647,7 mg/l Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 23 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

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

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			Method: OECD To	est Guideline 211
XV	vlene:			
-	oxicity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	oxicity to algae/aquatic ants	:	EC50 (Pseudokiro mg/l Exposure time: 72 Test Type: Growth Method: OECD To	h inhibition
	oxicity to fish (Chronic tox- ty)	:	NOEC: > 1,3 mg/l Exposure time: 56 Species: Oncorhy	
ac	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:		d phnia dubia (water flea) on (EC) No. 440/2008, Annex, C.20
2-methoxy-1-methylethyl acetate:		te:		
	oxicity to fish	:		test
	oxicity to daphnia and other quatic invertebrates	:	Exposure time: 48 Test Type: static t	
	oxicity to algae/aquatic ants	:	EC50 (Pseudokiro 1.000 mg/l Exposure time: 96 Test Type: static t Method: OECD To	test
	oxicity to fish (Chronic tox- ty)	:	NOEC: 47,5 mg/l Exposure time: 14 Species: Oryzias Method: OECD Te	latipes (Orange-red killifish)
ac	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:	NOEC: >= 100 m Exposure time: 21 Species: Daphnia Method: OECD To	l d magna (Water flea)
H	ydrocarbons, C9, Aromatic	cs:		
-	oxicity to fish	:	LL50 (Oncorhyncl	hus mykiss (rainbow trout)): 9,2 mg/l

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				Exposure time: 96 Method: OECD Te	
	Toxicity to daph aquatic inverteb		:	EL50 (Daphnia ma End point: Immobi Exposure time: 48 Method: OECD Te	h
	Toxicity to algae plants	e/aquatic	:	NOELR (Pseudok mg/l Exposure time: 72 Method: OECD Te	
	Toxicity to fish (icity)	Chronic tox-	:	NOELR: 1,228 mg Exposure time: 28 Species: Oncorhy	
	Toxicity to daph aquatic inverteb ic toxicity)		:	NOELR: 2,144 mg Exposure time: 21 Species: Daphnia	
	Ecotoxicology	Assessment			
	Chronic aquatic	toxicity	:	Toxic to aquatic lif	e with long lasting effects.
	Hexamethylene	e-di-isocvanat	e. r	oolvmer:	
	Toxicity to fish	·	:	•	ĥ
	Toxicity to daph aquatic inverteb		:	EC0 (Daphnia ma End point: Immobi Exposure time: 48 Method: OECD Te	h
	Toxicity to algae plants	e/aquatic	:	NOEC (Desmodes End point: Growth Exposure time: 72 Method: OECD Te	h
	2-butoxyethyl a	acetate:			
	Toxicity to fish		:	LC50 (Fish): 28 m Exposure time: 96 Method: OECD Te	ĥ
	Toxicity to daph aquatic inverteb ic toxicity)		:	NOEC: 30 mg/l Exposure time: 7 o Species: Ceriodap Method: OECD Te	hnia dubia (water flea)

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	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate:							
	Toxicity to fish	:	: LC50 (Danio rerio (zebra fish)): 0,9 mg/l Exposure time: 96 h Method: OECD Test Guideline 203					
			NOEC (Danio reri Exposure time: 96 Method: OECD Te					
	Toxicity to algae/a plants	aquatic :	EC50 (Desmodes Exposure time: 72 Method: OECD Te					
	M-Factor (Acute a icity)	iquatic tox- :	1					
	Toxicity to daphnia aquatic invertebra ic toxicity)		Exposure time: 21	magna (Water flea)				
	M-Factor (Chronic toxicity)	aquatic :	1					
12.2	12.2 Persistence and degradability							
	Components:							
	acetone: Biodegradability	:	Result: Readily bi Biodegradation: S Exposure time: 28 Method: OECD Te	00,9 %				
	n-butyl acetate:							
	Biodegradability	:	Result: Readily bi Biodegradation: 8 Exposure time: 28	33 %				
	xylene:							
	Biodegradability	:	Result: Readily bi Method: OECD Te					
	2-methoxy-1-met	hylethyl aceta	ate:					
	Biodegradability	:	Result: Readily bi Biodegradation: S Exposure time: 28 Method: OECD Te	00%				

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Hydrocarbons, C9, Aromatics Biodegradability			 s: Result: Readily biodegradable. Biodegradation: 78 % Exposure time: 28 d Method: OECD Test Guideline 301F 				
	Hexamethylene-di-isocyana	ate,	polymer:				
	Biodegradability	:	 Result: Not rapidly biodegradable Biodegradation: 2 % Exposure time: 28 d Method: Regulation (EC) No. 440/2008, Annex, C.4-E 				
	2-butoxyethyl acetate:						
	Biodegradability	:	Result: Readily biodegradable. Biodegradation: 88 % Exposure time: 28 d				
	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6 pentamethyl-4-piperidyl sebacate:						
	Biodegradability	:	: Biodegradation: 38 % Exposure time: 28 d Method: OECD Test Guideline 301F				
12.3 Bioaccumulative potential							
	Components:						
	acetone:						
	Bioaccumulation	:	Bioconcentration Remarks: Calcula				
	Partition coefficient: n- octanol/water	:	log Pow: -0,24 (2	0 °C)			
	n-butyl acetate:						
	Partition coefficient: n- octanol/water	:		°C) est Guideline 117			
	xylene:						
	Bioaccumulation	ioaccumulation : Species: Oncorhynchus mykiss (rainbow Bioconcentration factor (BCF): 25,9 'artition coefficient: n- : log Pow: 3,155 (20 °C)					
	Partition coefficient: n- octanol/water			20 °C)			
	2-methoxy-1-methylethyl ac	ceta	te-				
	Partition coefficient: n- octanol/water	:		°C)			

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		Method: OECI	D Test Guideline 117	
Не	xamethylene-di-isocya	nate, polymer:		
Bio	paccumulation	: Bioconcentrati	on factor (BCF): 706	
	rtition coefficient: n- anol/water	: log Pow: 8,38		
Pa	outoxyethyl acetate: rtition coefficient: n- anol/water	: log Pow: 1,51	(20 °C)	
	action mass of Bis(1,2, ntamethyl-4-piperidyl s		piperidyl) sebacate and Methyl 1,2,2,6,6-	
Bio	paccumulation	: Bioconcentrati	on factor (BCF): < 9,7	
	rtition coefficient: n- anol/water	: log Pow: 2,37 pH: 7 Method: OECI	- 2,77 (25 °C) D Test Guideline 107	
dir	nethyl ether:			
Pa	rtition coefficient: n- anol/water	: log Pow: 0,07	(25 °C)	
12.4 Mo	obility in soil			
<u>Co</u>	mponents:			
ре	action mass of Bis(1,2, ntamethyl-4-piperidyl s	ebacate:	piperidyl) sebacate and Methyl 1,2,2,6,6-	

Distribution among environ- : log Koc: 5,31 mental compartments

12.5 Results of PBT and vPvB assessment

Product:

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 consid- ered 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.

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12.7 Other adverse effects

Product:

Additional ecological infor- : No data available mation

Global warming potential

Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)

Components:

propane:

20-year global warming potential: 0,072 100-year global warming potential: 0,02 500-year global warming potential: 0,006 Atmospheric lifetime: 0,036 yr Radiative efficiency: 0 Wm2ppb Further information: Miscellaneous compounds

butane (containing < 0,1 % butadiene (203-450-8)):

20-year global warming potential: 0,022 100-year global warming potential: 0,006 500-year global warming potential: 0,002 Atmospheric lifetime: 0,019 yr Radiative efficiency: 0 Wm2ppb Further information: Miscellaneous compounds

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Dispose of in conjunction with appropriate waste disposal authorities and in accordance with disposal regulations.
		The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	:	Dispose of in accordance with local regulations.
Waste Code	:	The following Waste Codes are only suggestions: 15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

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ADN	: UN 1950				
ADR	: UN 1950				
RID	: UN 1950				
IMDG	: UN 1950				
ΙΑΤΑ	: UN 1950				
14.2 UN proper shipping name					
ADN	: AEROSOLS				
ADR	: AEROSOLS				
RID	: AEROSOLS				
IMDG	: AEROSOLS				
ΙΑΤΑ	: Aerosols, flamm	able			
14.3 Transport hazard class(es)					
	Class	Subsidiary risks			
ADN	: 2	2.1			
ADR	: 2	2.1			
RID	: 2	2.1			
IMDG	: 2.1				
IATA	: 2.1				
14.4 Packing group					
ADN					
Packing group	: Not assigned by	regulation			
Classification Code	: 5F				
Labels	: 2.1				
ADR Packing group	: Not assigned by	regulation			
Classification Code	: 5F	5			
Labels Tunnel restriction code	: 2.1 : (D)				
RID					
Packing group	: Not assigned by	regulation			
Classification Code Hazard Identification Number	: 5F : 23				
Labels	: 2.1				
IMDG					
Packing group Labels	: Not assigned by : 2.1	regulation			
EmS Code	: F-D, S-U				
IATA (Cargo)					
Packing instruction (cargo aircraft)	: 203				
aiitiait)					
	20/24				

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		g instruction (LQ) g group	:	Y203 Not assigned by r Flammable Gas	regulation
	Packin ger aire Packin	g instruction (LQ) g group	:	203 Y203 Not assigned by r Flammable Gas	regulation
14.5	5 Enviro	onmental 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

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.
REACH - Candidate List of Substances of Very High Concern for Authorization (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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Carsystem 2K-High Speed Klarlack

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	REACH - List of substances subject to authorisation : Not applicable (Annex XIV)					
-	ulation (EU) 2019/1 s precursors	148 on the marketing a	nd use	of explo-		
cious	This product is regulated by Regulation (EU) 2019/1148: all suspi- acetone (ANNEX II) cious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.					
pear conti	Parliament and of	12/18/EU of the Euro- the Council on the nt hazards involving	P3a	FLAMMABLE AEROSOLS		
			P2			
pear conti	Parliament and of	12/18/EU of the Euro- the Council on the nt hazards involving	18	Liquefied flammable gases (in- cluding LPG) and natural gas		
			34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar proper- ties as regards flammability and environmental hazards as the products referred to in points (a) to (d)		
Wate ny)	er hazard class (Ge			azardous to water rding to AwSV, Annex 1 (5.2)		
Vola	tile organic compo	Volatile orga	nic coi	EC mpounds (VOC) content: < 840 g/l e product in a ready to use condition.		

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

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

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regulations, where applicable.

15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

SECTION 16: Other information

Full text of H-Statements

I un text of II-Statements				
H220	:	Extremely flammable gas.		
H225	:	Highly flammable liquid and vapor.		
H226	:	Flammable liquid and vapor.		
H280	:	Contains gas under pressure; may explode if heated.		
H302	:	Harmful if swallowed.		
H304	:	May be fatal if swallowed and enters airways.		
H312	:	Harmful in contact with skin.		
H315	:	Causes skin irritation.		
H317	:	May cause an allergic skin reaction.		
H319	:	Causes serious eye irritation.		
H332	:	Harmful if inhaled.		
H335	:	May cause respiratory irritation.		
H336	:	May cause drowsiness or dizziness.		
H361f	:	Suspected of damaging fertility.		
H373	:	May cause damage to organs through prolonged or repeated		
		exposure.		
H400	:	Very toxic to aquatic life.		
H410	:	Very toxic to aquatic life with long lasting effects.		
H411	:	Toxic to aquatic life with long lasting effects.		
H412	:	Harmful to aquatic life with long lasting effects.		
EUH066	:	Repeated exposure may cause skin dryness or cracking.		
Full text of other abbreviations				
Full text of other abbreviation	ons			
	ons :			
Acute Tox.	ons :	Acute toxicity		
Acute Tox. Aquatic Acute	ons : :	Acute toxicity Short-term (acute) aquatic hazard		
Acute Tox. Aquatic Acute Aquatic Chronic	ons : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard		
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox.	ons : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard		
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Irrit.	ons : : :	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Eye irritation		
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Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Irrit. Flam. Gas Flam. Liq. Press. Gas Repr. Skin Irrit. Skin Sens. STOT RE STOT SE	ons	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Eye irritation Flammable gases Flammable liquids Gases under pressure Reproductive toxicity Skin irritation Skin sensitization Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure		
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Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Irrit. Flam. Gas Flam. Liq. Press. Gas Repr. Skin Irrit. Skin Sens. STOT RE STOT SE	ons	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Eye irritation Flammable gases Flammable liquids Gases under pressure Reproductive toxicity Skin irritation Skin sensitization Specific target organ toxicity - repeated exposure Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values Europe. Commission Directive 2019/1831/EU establishing a		
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Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Irrit. Flam. Gas Flam. Liq. Press. Gas Repr. Skin Irrit. Skin Sens. STOT RE STOT SE 2000/39/EC 2019/1831/EU	ons	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Eye irritation Flammable gases Flammable liquids Gases under pressure Reproductive toxicity Skin irritation Skin sensitization Specific target organ toxicity - repeated exposure Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values		

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

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2000 2000 2019 2019 DE [S 903)/39/EC / TWA)/39/EC / STEL)/1831/EU / TWA)/1831/EU / STEL)/1831/EU / STEL)FG MAK / MAK FRGS 900 / AGW	:	c - Biological lir Limit Value - ei Short term exp Limit Value - ei Short term exp MAK value Time Weighted	ght hours osure limit ght hours osure limit

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; Regulation (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 - Emergency 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

Classification of the mixture:

Aerosol 1	H222, H229
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H336
Aquatic Chronic 3	H412

Classification procedure:

Calculation method Calculation method Calculation method Calculation method Commission Regulation (EU) 2020/878

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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