Carsystem Bumper Structurant Spray

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

1.1	Product identifier		
	Trade name	: Carsystem Bumper Structurant Spray	
	Product code	: 142.982	
1.2	Relevant identified uses of th	e substance or mixture and uses advised against	
	Use of the Sub- stance/Mixture	: Paints	
	Recommended restrictions on use	: Industrial use, professional use	
1.3	Details of the supplier of the	e safety data sheet	
	Company	: JASA AG Müslistrasse 43 8957 Spreitenbach Schweiz	
		info@jasa-ag.ch, www.jasa-ag.ch	
	Telephone Telefax	info@jasa-ag.ch, www.jasa-ag.ch : +41 (0)44 431 60 70 : +41 (0)44 432 63 17	

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.				
Specific target organ toxicity - single ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.				

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:				
Signal Word	:	Danger			
Hazard Statements	:	 H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. 			
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.			
		Buildup of explosive mixtures possible without sufficient ventilation.			
Precautionary Statements	:	P101 If medical advice is needed, have product container or label at hand.P102 Keep out of reach of children.			
		Prevention:			
		 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. P260 Do not breathe spray. 			
		Storage: P410 + P412 Protect from sunlight. Do not expose to tem- peratures exceeding 50 °C/ 122 °F.			
		Disposal			

Disposal:

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P501 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:

ethyl acetate n-butyl acetate butanone

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

Chemical nature

aerosol Mixture

Components			
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
ethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 25 - < 50
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 - < 10
butanone	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 5 - < 10

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			EUH066			
ethar	nol	64-17-5 200-578-6 603-002-00-5 01-21194576		>= 1 - < 2,5		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

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. If inhaled Move to fresh air. ÷ If symptoms persist, call a physician. Wash off immediately with soap and plenty of water. In case of skin contact : If symptoms persist, call a physician. In case of eye contact, remove contact lens and rinse imme-In case of eye contact : 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. Immediately give large quantities of water to drink. Get medical attention immediately. 4.2 Most important symptoms and effects, both acute and delayed Risks Causes serious eye irritation. 5 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

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	Unsuitable extinguishing media	:	High volume wate	er jet
5.2	Special hazards arising from	n the	substance or mi	xture
	Specific hazards during fire fighting	:		explosive mixtures with air. prous/toxic fumes possible in cases of pure.
	Hazardous combustion prod- ucts	:	Carbon monoxide bons (smoke).	e, carbon dioxide and unburned hydrocar-
5.3 Advice for firefighters				
	Special protective equipment for fire-fighters	:	Use personal prot protection equipm	tective equipment. Wear suitable respiratory nent.
	Further information	:	cumstances and f Fire residues and be disposed of in Use water spray t	measures that are appropriate to local cir- the surrounding environment. contaminated fire extinguishing water must accordance with local regulations. o cool unopened containers. and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Wear personal protective equipment. 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.
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.

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.

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SECTION 7: Handling and storage

7.1	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.				
	Advice on protection against fire and explosion	:	Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight.				
	Hygiene measures	:	Do not inhale aerosol.				
7.2	Conditions for safe storage, i	ncl	uding any incompatibilities				
	Requirements for storage areas and containers	:	Please observe the storage instructions for aerosols! Keep containers tightly closed in a cool, well-ventilated place. Sol- vent vapors are heavier than air and may spread along floors. Keep away from direct sunlight. Keep away from heat and sources of ignition.				
	Further information on stor- age conditions	:	Storage must be in accordance with the BetrSichV (Germany).				
	Advice on common storage	:	Keep away from food and drink.				
	Storage class (TRGS 510)	:	2B				
7.3	Specific 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	
ethyl acetate	141-78-6	STEL	400 ppm 1.468 mg/m3	2017/164/EU	
	Further inform	Further information: Indicative			
		TWA	200 ppm 734 mg/m3	2017/164/EU	
	Further inform	Further information: Indicative			
		AGW	200 ppm 730 mg/m3	DE TRGS 900	

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	Peak-limit c	ategory: 2;(I)				
			here is compliance with the C)EL and biological		
			o risk of harming the unborn of			
propane	74-98-6	AGW	1.000 ppm	DE TRGS		
propune	14 00 0	/////	1.800 mg/m3	900		
	Peak-limit o	ategory: 4;(II)				
n-butyl acetate	123-86-4	AGW	62 ppm	DE TRGS		
			300 mg/m3	900		
	Peak-limit o	ategory: 2;(I)				
			here is compliance with the C	DEL and biological		
			o risk of harming the unborn o			
		STEL	150 ppm	2019/1831/		
			723 mg/m3	U		
	Further info	rmation: Indicati	ve			
		TWA	50 ppm	2019/1831/		
			241 mg/m3	U		
	Further info	rmation: Indicati	-			
butane (containing	106-97-8	AGW	1.000 ppm	DE TRGS		
< 0,1 % butadiene			2.400 mg/m3	900		
(203-450-8))						
		ategory: 4;(II)				
isobutane (< 0,1%	75-28-5	AGW	1.000 ppm	DE TRGS		
1,3-butadiene			2.400 mg/m3	900		
(203-450-8))	Book limit c	ategory: 4;(II)				
butanone	78-93-3	TWA	200 ppm	2000/39/EC		
bulanone	10-93-3	IVVA	600 mg/m3	2000/39/EC		
	Further info	rmation: Indicati				
		STEL	300 ppm	2000/39/EC		
			900 mg/m3	2000/00/20		
	Further info	Further information: Indicative				
		AGW	200 ppm	DE TRGS		
			600 mg/m3	900		
	Peak-limit o	Peak-limit category: 1;(I)				
			sorption, When there is com	pliance with the OE		
			ues, there is no risk of harmir			
ethanol	64-17-5	AGW	200 ppm	DE TRGS		
			380 mg/m3	900		
	Peak-limit category: 4;(II)					
			here is compliance with the C	DEL 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
butanone	78-93-3	2-butanone: 2 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903

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
ethyl acetate	Workers	Inhalation	Long-term systemic	734 mg/m3

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			effects, Long-term local effects	
	Workers	Inhalation	Acute systemic ef- fects, Acute local effects	1468 mg/m
	Workers	Skin contact	Long-term systemic effects	63 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	367 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects, Acute local effects	734 mg/m3
	Consumers	Skin contact	Long-term systemic effects	37 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4,5 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/m
	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
butanone	Workers	Inhalation	Long-term systemic effects	600 mg/m3
	Workers	Skin contact	Long-term systemic effects	1161 mg/k
	Consumers	Inhalation	Long-term systemic effects	106 mg/m3
	Consumers	Skin contact	Long-term systemic effects	412 mg/kg
	Consumers	Oral	Long-term systemic effects	31 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
ethyl acetate	Fresh water	0,24 mg/l
	Sea water	0,024 mg/l
	Fresh water sediment	1,15 mg/kg dry

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		weight (d.w.)
	Sea sediment	0,115 mg/kg dry
		weight (d.w.)
	Sewage treatment plant (STP)	650 mg/l
	Soil	0,148 mg/kg dry
		weight (d.w.)
	Oral (Secondary Poisoning)	200 mg/kg food
n-butyl acetate	Fresh water	0,18 mg/l
	Sea water	0,018 mg/l
	Fresh water sediment	0,981 mg/kg dry
		weight (d.w.)
	Sea sediment	0,098 mg/kg dry
		weight (d.w.)
	Sewage treatment plant (STP)	35,6 mg/l
	Soil	0,09 mg/kg dry
		weight (d.w.)
butanone	Fresh water	55,8 mg/l
	Sea water	55,8 mg/l
	Sewage treatment plant (STP)	709 mg/l
	Fresh water sediment	284,74 mg/kg
	Sea sediment	284,7 mg/kg
	Soil	22,5 mg/kg
ethanol	Fresh water	0,96 mg/l
	Sea water	0,79 mg/l
	Sewage treatment plant (STP)	580 mg/l
	Fresh water sediment	3,6 mg/kg dry
		weight (d.w.)
	Sea sediment	2,9 mg/kg dry
		weight (d.w.)
	Soil	0,63 mg/kg dry
		weight (d.w.)
	Oral (Secondary Poisoning)	0,38 mg/kg food

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles Safety glasses with side-shields conforming to EN166

Hand protection		
Material	:	butyl-rubber
Break through time	:	> 480 min
Glove thickness	:	>= 0,4 mm
Directive	:	DIN EN 374
Protective index	:	Class 6

:

:

Remarks

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed. Preventive skin protection

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Sk	kin and body protection		suitable protective clothing, e.g. made of cotton ant synthetic fibres. clothing
Re	espiratory protection	quired. In case of ina When workers	espiratory protective equipment normally re- dequate ventilation wear respiratory protection. s are facing concentrations above the exposure t use appropriate certified respirators.
	Filter type	: Filter type A-F	5
Pr	otective 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. 	
Er	nvironmental exposure co	ontrols	
5	-		popotration

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state		aerosol
Color	:	black
Odor	:	solvent
Melting point/freezing point	:	not determined
Initial boiling point and boiling range	:	Not applicable
Upper explosion limit / Upper flammability limit	:	11,5 %(V)
Lower explosion limit / Lower flammability limit	:	1,7 %(V)
Flash point	:	Not applicable
Autoignition temperature	:	365 °C
рН	:	not determined substance/mixture is non-soluble (in water)
Viscosity Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined

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	Solubility(ies) Water solubility		: immiscible	
	Partition coefficient octanol/water	n-	: not determined	
	Vapor pressure		: 3.500 hPa (20 °	C)
	Density		: 0,79 g/cm3 (20	°C)
9.2	Other information Explosives		: Not explosive In use, may forr	n flammable/explosive vapor-air mixture.
	Self-ignition		: not auto-flamma	able

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
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Hazardous reactions : Vapors may form explosive mixture with air.

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.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Components:

ethyl acetate:

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Acute oral toxicity		at): 4.934 mg/kg D Test Guideline 401		
Acute inhalation toxicity	Exposure time Test atmosphe	LC0 (Rat): 22,5 mg/l, > 6000 ppm Exposure time: 6 h Test atmosphere: vapor Assessment: The substance or mixture has no acute inhala- tion toxicity		
Acute dermal toxicity	: LD50 Dermal	(Rabbit): > 20.000 mg/kg		
n-butyl acetate:				
Acute oral toxicity	: LD50 (Rat): 10 Method: OEC).760 mg/kg D Test Guideline 423		
Acute inhalation toxicity	: LD50 (Rat): > Exposure time Test atmosphe Method: OEC	e: 4 h		
Acute dermal toxicity		(Rabbit): 14.112 mg/kg D Test Guideline 402		
butanone:				
Acute oral toxicity		at): 3.460 mg/kg D Test Guideline 423		
Acute dermal toxicity		(Rabbit): 5.000 mg/kg D Test Guideline 402		
ethanol:				
Acute oral toxicity		at): 10.470 mg/kg D Test Guideline 401		
Acute inhalation toxicity	: LC50 (Rat): 1 Exposure time Test atmosphe Method: OECI	e: 4 h		
Acute dermal toxicity	: Assessment: - toxicity	The substance or mixture has no acute derma		

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

ethanol:

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	Result		:	Mild eye irritation			
	Respira	atory or skin sensitiz	atio	on			
	Skin sensitization Not classified based on available information.						
	•	atory sensitization ssified based on availa	able	information.			
		ell mutagenicity ssified based on availa	able	information.			
	Carcinogenicity Not classified based on available information.						
	Reproductive toxicity Not classified based on available information.						
	STOT-single exposure May cause drowsiness or dizziness.						
		repeated exposure ssified based on availa	able	information.			
	Aspiration toxicity Not classified based on available information.						
11.2	11.2 Information on other hazards						
	Endocr	ine disrupting prope	rtie	S			
	Produc Assessi		:	ered to have ende REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.		

SECTION 12: Ecological information

12.1 Toxicity

Components:		
ethyl acetate: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 230 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 610 mg/l Exposure time: 48 h
Toxicity to algae/aquatic	:	NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

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	plants			Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	NOEC (Pseudomo Exposure time: 16	onas putida): 650 mg/l 5 h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: > 9,65 mg Exposure time: 32 Species: Pimepha Method: OECD Te	d les promelas (fathead minnow)
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 2,4 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	n-butyl	acetate:			
	Toxicity	r to fish	:	(Pimephales pror Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 44 mg/l s h
	Toxicity plants	to algae/aquatic	:	EC50 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 647,7 mg/l ? h
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 23 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	butano	ne:			
	Toxicity	r to fish	:	LC50 (Pimephales End point: mortalit Exposure time: 96 Method: OECD Te	ĥ
		to daphnia and other invertebrates	:	EC50 (Daphnia m End point: Immob Exposure time: 48 Method: OECD Te	5 h
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
		icology Assessment		This product has r	no known ecotoxicological effects.
	Childhic		•		is known ecoloxicological effects.

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ethanol:				
Toxicity to fish	:	LC50 (Fish): 11.200 mg/l Exposure time: 96 h Remarks: This product has no known ecotoxicological effects		
Toxicity to fish (Chronic tox- icity)	:	NOEC: 250 mg/l Species: Fish		
12.2 Persistence and degradabi	ility			
Components:				
ethyl acetate: Biodegradability	:	Exposure time: 2	79 % emical oxygen demand	
n-butyl acetate: Biodegradability	:	Result: Readily b Biodegradation: Exposure time: 2	83 %	
ethanol:				
Biodegradability	:	Result: Readily b	iodegradable.	
12.3 Bioaccumulative potential				
Components:				
ethyl acetate: Partition coefficient: n- octanol/water	:	log Pow: 0,68 (25	5 °C)	
n-butyl acetate:				
Partition coefficient: n- octanol/water	:	log Pow: 2,3 (25 Method: OECD T	°C) 'est Guideline 117	
butanone: Partition coefficient: n- octanol/water	:	log Pow: 0,3 (40 pH: 7	°C)	
ethanol: Partition coefficient: n- octanol/water	:	log Pow: -0,35 (2	0 °C)	

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12.4 Mobility in soil

No data available

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 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

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

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Prod	uct	not product spe Dispose of in co	e European Waste Catalog, Waste Codes are cific, but application specific. onjunction with appropriate waste disposal in accordance with disposal regulations.	
Cont	aminated packaging	: Dispose of in a	ccordance with local regulations.	
Was	te Code	08 01 11, waste or other hazard	ging containing residues of or contaminated	

SECTION 14: Transport information

14.1 UN number or ID number

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, flammable

14.3 Transport 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 Packing group			
ADN Packing group Classification Code Labels ADR		Not assigned by regu 5F 2.1	lation

Carsystem Bumper Structurant Spray

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	Packing group Classification Code Labels Tunnel restriction code	:	Not assigned by 5F 2.1 (D)	regulation
	RID Packing group Classification Code Hazard Identification Number Labels	:	Not assigned by 5F 23 2.1	regulation
	IMDG Packing group Labels EmS Code	:	Not assigned by 2.1 F-D, S-U	regulation
	IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	:	203 Y203 Not assigned by Flammable Gas	regulation
	IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	:	203 Y203 Not assigned by Flammable Gas	regulation
14.5 Environmental hazards				
	ADN Environmentally hazardous	:	no	
	ADR Environmentally hazardous	:	no	
	RID Environmentally hazardous	:	no	
	IMDG			

14.6 Special precautions for user

Marine pollutant

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

: no

Not applicable for product as supplied.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix- ture	
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:
REACH - Candidate List of Substances of Very High : Not applicable Concern for Authorization (Article 59).	
Regulation (EC) No 1005/2009 on substances that de- : Not applicable plete the ozone layer	
Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable tants (recast)	
REACH - List of substances subject to authorisation : Not applicable (Annex XIV)	
Seveso III: Directive 2012/18/EU of the Euro-P3a FLAMMABLE AEROSOLS pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	
Water hazard class (Germa- : WGK 1 slightly water endangering ny) Classification according to AwSV, Annex 1 (5.2)	
Volatile organic compounds : Directive 2004/42/EC Volatile organic compounds (VOC) content: < 840 g/l VOC content for the product in a ready to use condition.	
Other regulations:	
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

regulations, where applicable.

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

H225	:	Highly flammable liquid and vapor.
H226	:	Flammable liquid and vapor.

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	H319 H336		:	Causes serious e May cause drows	
	EUH06	6	:		re may cause skin dryness or cracking.
	Full tex	t of other abbreviatio	ons		
	Eye Irrit	t.	:	Eye irritation	
	Flam. L		:	Flammable liquids	
	STOT S		:		an toxicity - single exposure
	2000/39	9/EC	:		ion Directive 2000/39/EC establishing a first cupational exposure limit values
	2017/16	64/EU	:		ion Directive 2017/164/EU establishing a tive occupational exposure limit values
	2019/18	331/EU	:	Europe. Commiss	ion Directive 2019/1831/EU establishing a ve occupational exposure limit values
	DE TRO	GS 900	:	Germany. TRGS	900 - Occupational exposure limit values.
	TRGS	903	:	c - Biological limit	values
	2000/39	9/EC / TWA	:	Limit Value - eight	
		9/EC / STEL	:	Short term exposu	
	2017/16	64/EU / STEL	:	Short term exposu	ure limit
		64/EU / TWA	:	Limit Value - eight	
		331/EU / TWA	:	Limit Value - eight	
	2019/18	331/EU / STEL	:	Short term exposu	
	DE TRO	GS 900 / AGW	:	Time Weighted Av	/erage

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 -

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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:	Classification procedure:			
Aerosol 1	H222, H229	Calculation method			
Eye Irrit. 2	H319	Calculation method			
STOT SE 3	H336	Calculation method			

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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