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

1.1	Product identifier		
	Trade name	:	Carsystem Multi
	Product code	:	130.857
1.2	Relevant identified uses of th	ie s	substance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Body filler/stopper
	Recommended restrictions on use	:	Reserved for industrial and professional use.
1.3	Details of the supplier of the	e 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	: F	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

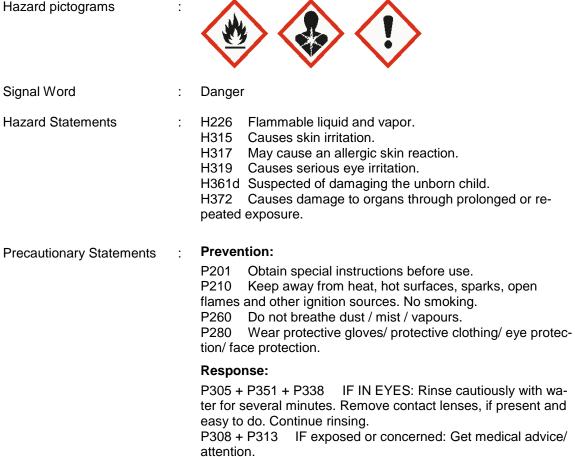
Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through pro- longed or repeated exposure.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



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Storage:

P405 Store locked up.

Disposal:

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:

styrene maleic anhydride

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

Mixture contains Resin

5

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		· · · ·
	Registration number		
styrene	100-42-5	Flam. Liq. 3; H226	>= 10 - < 20
	202-851-5	Acute Tox. 4; H332	
	601-026-00-0	Skin Irrit. 2; H315	
	01-2119457861-32	Eye Irrit. 2; H319	
		Repr. 2; H361d	
		STOT SE 3; H335	
		(Respiratory system)	
		STOT RE 1; H372	
		(hearing organs)	
		Asp. Tox. 1; H304	
		Aquatic Chronic 3;	
		H412	

according to Regulation (EC) No. 1907/2006

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	c anhydride	108-31-6 203-571-6 607-096-00-9 01-2119472423	Acute toxicity estimateAcute inhalation toxicity (vapor): 11,8mg/lAcute Tox. 4; H302Skin Corr. 1B; H314Eye Dam. 1; H318Resp. Sens. 1; H334Skin Sens. 1A; H317STOT RE 1; H372(Respiratory system)EUH071specific concentrationlimitSkin Sens. 1A; H317>= 0,001 %Acute toxicity estimateAcute oral toxicity:1.090 mg/kg	>= 0,001 - < 0,1
	ances with a workpla		1	00 50
Talc		14807-96-6 238-877-9		>= 30 - < 50

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. Move out of dangerous area. Take off contaminated clothing and shoes immediately. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Show this material safety data sheet to the doctor in attend- ance.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing
If inhaled	:	Move to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respira-

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		tion. Call a physician ir	nmediately.	
In case of skin contact	I	removing all conta	ately with soap and plenty of water while aminated clothes and shoes. irritation develops or persists.	
In case of eye contact	1 	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If easy to do, remove contact lens, if worn. Consult a physician.		
If swallowed	I	Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.		
4.2 Most important symptoms ar	nd eff	fects, both acute	and delayed	
Risks		Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.		
4.3 Indication of any immediate	medi	cal attention and	I special treatment needed	
Treatment		Treat symptomati Keep under medie	cally. cal supervision for at least 48 hours.	
SECTION 5: Firefighting meas	sure	S		
5.1 Extinguishing media				
Suitable extinguishing media		Carbon dioxide (C Dry powder Water spray jet Alcohol-resistant f		
Unsuitable extinguishing media	:	: High volume water jet		
5.2 Special hazards arising from	thes	substance or mi	xture	
Specific hazards during fire fighting	: 1	Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.		
Hazardous combustion prod- ucts	I	: Hazardous decomposition products due to incomplete com- bustion Carbon monoxide, carbon dioxide and unburned hydrocar- bons (smoke).		

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Specia	for firefighters I protective equipment fighters	:		e, wear self-contained breathing apparatus. tective equipment.
Further information		:	Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.	

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. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not smoke. Avoid contact with skin, eyes and clothing. Sweep up to prevent slipping hazard. In the case of vapor formation use a respirator with an ap- proved filter.
6.2 Environmental precautions	
Environmental precautions :	Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Do not flush with water.
-------------------------	---

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

Advice on safe handling	:	Keep container closed when not in use.
		Provide sufficient air exchange and/or exhaust in work rooms.
		Wear personal protective equipment.
		Avoid contact with skin and eyes.
		Avoid the inhalation of dust, particulates, spray or mist arising
		from the application of this mixture.
		Avoid inhalation of dust from sanding.

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		on protection against explosion	:	open flames, hot smoke. Take mea	explosive mixtures with air. Keep away from surfaces and sources of ignition. Do not asures to prevent the build up of electrostatic psion-proof equipment.
7.2	Conditio	ons for safe storage,	inc	luding any incom	patibilities
	-	ements for storage and containers	:	Store in original c dry, cool and well	ontainer. Keep containers tightly closed in a -ventilated place.
		information on stor- nditions	:		neat and sources of ignition. Protect from way from direct sunlight. Do not store at we 30 °C / 86 °F.
	Advice	on common storage	:	Incompatible with Keep away from t	
	Storage	e class (TRGS 510)	:	3	
7.3	-	: end use(s) c use(s)	:	No data available	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

a i				
Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
Talc	14807-96-6	AGW (Inhalable	10 mg/m3	DE TRGS
		fraction)	0	900
	Peak-limit cat	/		
			compliance with the OEL ar	nd biological
			f harming the unborn child	- - -
		AGW (Alveolate	1,25 mg/m3	DE TRGS
		fraction)		900
	Peak-limit cat	egory: 2;(II)		
Further information: When there is compliance with the OEL and			nd biological	
	tolerance valu	es, there is no risk c	f harming the unborn child	
		TWA (Respirable	0,1 mg/m3	2004/37/EC
		dust)	-	
	Further information: Carcinogens or mutagens			
styrene	100-42-5	AGW	20 ppm	DE TRGS
-			86 mg/m3	900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biol		nd biological	
	tolerance valu	ies, there is no risk c	f harming the unborn child	-
Barium sulphate	7727-43-7	AGW (Inhalable	10 mg/m3	DE TRGS
·		fraction)	-	900
	Peak-limit cat	egory: 2;(II)		

according to Regulation (EC) No. 1907/2006

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				is compliance with the OEL a of harming the unborn child	and biological
			AGW (Alveolate fraction)	1,25 mg/m3	DE TRGS 900
		Peak-limit cat	egory: 2;(II)		•
				is compliance with the OEL a of harming the unborn child	and biological
Titani	ium dioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m3 (Titanium dioxide)	DE TRGS 900
		Peak-limit cat	egory: 2;(II)		•
		Further information: When there is compliance with the OEL and biological			
		tolerance values, there is no risk of harming the unborn child			
AGW (Alveolate 1,25 mg/m3		1,25 mg/m3	DE TRGS		
			fraction)	(Titanium dioxide)	900
		Peak-limit cat	egory: 2;(II)		
		Further information: When there is compliance with the OEL and biological			
				of harming the unborn child	
malei	ic anhydride	108-31-6	AGW (Vapour	0,02 ppm	DE TRGS
			and aerosols)	0,081 mg/m3	900
			egory: 1; =2.5=(I)		
		Further information: In well-found cases also a momentary value can be tablished, that never can be exceeded. This substance will be indicated			indicated by = =
	in combination with an exceeding value., 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 and respiratory system			ng the unborn	

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
styrene	100-42-5	mandelic acid + phenylglyoxylic acid: 600 mg/g Creatinine (Urine)	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	Routes of expo- sure	Potential health ef- fects	Value
styrene	Workers	Dermal	Long-term systemic effects, Chronic ef- fects	406 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects, Chronic ef- fects	85 mg/m3
	Workers	Inhalation	Acute systemic ef- fects, Chronic effects	289 mg/m3
	Workers	Inhalation	Acute local effects, Short-term exposure	306 mg/m3
	Consumers	Oral	Long-term systemic effects, Chronic ef- fects	2,1 mg/kg bw/day

according to Regulation (EC) No. 1907/2006

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		Consumers	Dermal	Long-term systemic effects, Chronic ef- fects	343 mg/kg bw/day
		Consumers	Inhalatior	Long-term systemic effects, Chronic ef- fects	10,2 mg/m3
		Consumers	Inhalatior	Acute systemic ef- fects, Short-term exposure	174,25 mg/m3
		Consumers	Inhalatior	Acute local effects, Short-term exposure	182,75 mg/m3
malei	ic anhydride	Workers	Inhalatior	Long-term systemic effects	0,081 mg/m3
		Workers	Inhalatior	Acute systemic ef- fects	0,2 mg/m3

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

Substance name	Environmental Compartment	Value
styrene	Fresh water	0,028 mg/l
	Sea water	0,014 mg/l
	Fresh water sediment	0,614 mg/kg dry weight (d.w.)
	Sea sediment	0,307 mg/kg dry weight (d.w.)
	Soil	0,2 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	5 mg/l
maleic anhydride	Fresh water	0,038 mg/l
	Sea water	0,004 mg/l
	Fresh water sediment	0,296 mg/kg dry weight (d.w.)
	Sea sediment	0,03 mg/kg dry weight (d.w.)
	Soil	0,037 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	44,6 mg/l

8.2 Exposure controls

Personal protective equi	pment	
Eye/face protection	:	Safety glasses with side-shields conforming to EN166

Hand protection Material Break through time Glove thickness Directive Protective index	 Fluorinated rubber > 480 min >= 0,4 mm DIN EN 374 Class 6
Remarks	: Gloves should be discarded and replaced if there is any indi- cation of degradation or chemical breakthrough. The data about break through time/strength of material are standard

according to Regulation (EC) No. 1907/2006

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	to be obtained f choice of an ap material but also from one produc	act break through time/strength of material has from the producer of the protective glove. The propriate glove does not only depend on its o on other quality features and is different cer to the other. Preventive skin protection a not suitable. Nitrile gloves are not suitable. ubber gloves.
Skin and body protection		itable protective clothing, e.g. made of cotton It synthetic fibres. lothing
Respiratory protection	exposure limits. If exposure can haust ventilation should be used. Dry sanding, fla al will give rise t Use the indicate	not be avoided by the provision of local ex- n, suitable respiratory protective equipment
Filter type	: Combined partie	culates and organic vapor type (A-P)
Protective measures	located close to Avoid contact w	e flushing systems and safety showers are the working place. /ith the skin and the eyes. dequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	paste
Color	:	beige
Odor	:	characteristic
Melting point/range	:	-30 °C Literary value styrene
Boiling point/boiling range	:	145 °C (1.013 hPa) Literary value styrene
Upper explosion limit / Upper flammability limit	:	6,1 %(V) Literary value styrene
Lower explosion limit / Lower flammability limit	:	1,1 %(V) Literary value styrene

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Flash point		:	31 °C(1.013 hPa Literary value sty	
Autoignition ter	nperature	:	490 °C (1.013 hF Literary value sty	
Decomposition	temperature	:	No data available	9
рН		:	Not applicable su	ubstance/mixture is non-soluble (in water)
Viscosity Viscosity, d	ynamic	:	not determined	
Viscosity, ki	nematic	:	not determined	
Solubility(ies) Water solub	ility	:	0,32 g/l(25 °C) Literary value sty	/rene
Partition coeffic	cient: n-	:	log Pow: 2,96 (2) Literary value sty	
Vapor pressure)	:	6,67 hPa (20 °C) Literary value sty	
Density		:	ca. 1,8 g/cm3 (20	(3 ° C)
Relative vapor	density	:	No data available	e
9.2 Other informat	ion			
Explosives		:	Not explosive In use, may form	flammable/explosive vapor-air mixture.
Flammability (li	quids)	:	Flammable	
Self-ignition		:	not auto-flamma	ble

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 : Avoid radical-forming starting agents, peroxides and reactive metals. Polymerization can occur.Polymerization is a highly exother-

mic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

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	tions to avoid ions to avoid		at, flames and ong sunlight f	d sparks. or prolonged periods.
	patible materials als to avoid	pol Coj	ymerization ir oper oper alloys	d oxidizing agents hitiators

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.

Product:

 Acute inhalation toxicity
 : Acute toxicity estimate: > 20 mg/l

 Exposure time: 4 h
 Test atmosphere: vapor

 Method: Calculation method

Components:

styrene:		
Acute oral toxicity	:	LD50 Oral (Rat): 5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 11,8 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	:	LD50 Dermal (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402
maleic anhydride:		
Acute oral toxicity	:	LD50 Oral (Rat): 1.090 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 4,35 mg/l Exposure time: 1 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 2.620 mg/kg

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Talc:		
Acute oral toxicity	: LD50 Oral (Ra Method: OEC	at): 5.000 mg/kg D Test Guideline 423
Acute inhalation toxicity	: Assessment: tion toxicity	The substance or mixture has no acute inhal
Acute dermal toxicity		(Rat): > 2.000 mg/kg D Test Guideline 402
Skin corrosion/irritation Causes skin irritation.		
Components:		
styrene:		
Species Result	: Rabbit : irritating	
Serious eye damage/eye ir	rritation	
Serious eye damage/eye in Causes serious eye irritation	rritation	
Serious eye damage/eye in Causes serious eye irritation Components:	rritation	
Serious eye damage/eye in Causes serious eye irritation	rritation	
Serious eye damage/eye in Causes serious eye irritation <u>Components:</u> styrene:	rritation n.	
Serious eye damage/eye in Causes serious eye irritation <u>Components:</u> styrene: Species	rritation n. : Rabbit : irritating	
Serious eye damage/eye in Causes serious eye irritation <u>Components:</u> styrene: Species Result Respiratory or skin sensiti Skin sensitization	rritation n. : Rabbit : irritating ization	
Serious eye damage/eye in Causes serious eye irritation <u>Components:</u> styrene: Species Result Respiratory or skin sensiti Skin sensitization May cause an allergic skin r	rritation n. : Rabbit : irritating ization	
Serious eye damage/eye in Causes serious eye irritation <u>Components:</u> styrene: Species Result Respiratory or skin sensiti Skin sensitization May cause an allergic skin r Respiratory sensitization	rritation n. : Rabbit : irritating ization eaction.	
Serious eye damage/eye in Causes serious eye irritation <u>Components:</u> styrene: Species Result Respiratory or skin sensiti Skin sensitization May cause an allergic skin r	rritation n. : Rabbit : irritating ization eaction.	
Serious eye damage/eye in Causes serious eye irritation <u>Components:</u> styrene: Species Result Respiratory or skin sensiti Skin sensitization May cause an allergic skin r Respiratory sensitization Not classified based on avail <u>Components:</u>	rritation n. : Rabbit : irritating ization eaction.	
Serious eye damage/eye in Causes serious eye irritation <u>Components:</u> styrene: Species Result Respiratory or skin sensiti Skin sensitization May cause an allergic skin r Respiratory sensitization Not classified based on avail <u>Components:</u> styrene:	rritation n. : Rabbit : irritating ization eaction. ilable information.	
Serious eye damage/eye in Causes serious eye irritation <u>Components:</u> styrene: Species Result Respiratory or skin sensiti Skin sensitization May cause an allergic skin r Respiratory sensitization Not classified based on avail <u>Components:</u>	rritation n. : Rabbit : irritating ization iable information. : Guinea pig	se skin sensitization.
Serious eye damage/eye in Causes serious eye irritation <u>Components:</u> styrene: Species Result Respiratory or skin sensiti Skin sensitization May cause an allergic skin r Respiratory sensitization Not classified based on avail <u>Components:</u> styrene: Species	rritation n. : Rabbit : irritating ization iable information. : Guinea pig	se skin sensitization.

Not classified based on available information.

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	ogenicity ssified based on avail	lable information.	
-	ductive toxicity	unborn child.	
<u>Compo</u>	onents:		
styren	e:		
Reproc sessme	ductive toxicity - As- ent		f damaging the unborn child., Some evidence of cts on development, based on animal experi-
	single exposure ssified based on avail	lable information.	
Compo	onents:		
styren Assess		: May cause r	espiratory irritation.
Causes	repeated exposure s damage to organs (ł onents:	nearing organs) thr	ough prolonged or repeated exposure if inhaled.
styren	e:		
	of exposure Organs sment	 Inhalation hearing orga Causes dam exposure. 	ns age to organs through prolonged or repeated
maleic	anhydride:		
Routes	of exposure Organs	 Inhalation Respiratory Causes dam exposure. 	system age to organs through prolonged or repeated
Aspira	tion toxicity		
Not cla	ssified based on avail	lable information.	
Compo	onents:		
styren May be	e: e fatal if swallowed an	d enters airways.	
11.2 Inform	ation on other haza	rds	
Endoc	rine disrupting prop	erties	

Product:

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Assessment	:	ered to have endo REACH Article 57(cture does not contain components consid- crine disrupting properties according to (f) or Commission Delegated regulation • Commission Regulation (EU) 2018/605 at igher.
ECTION 12: Ecological infor	ma	tion	
2.1 Toxicity <u>Components:</u>			
styrene: Toxicity to fish	:	LC50 (Pimephales Exposure time: 96	promelas (fathead minnow)): 4,02 mg/l h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia ma Exposure time: 48 Method: OECD Te	
Toxicity to algae/aquatic plants	:	EC50 (Selenastrur Exposure time: 72	n capricornutum (green algae)): 4,9 mg/l h
		EC10 (Selenastrur Exposure time: 96	n capricornutum (green algae)): 0,28 mg/l h
Toxicity to microorganisms	:	EC50 (Natural mic Method: OECD Te	roorganism): ca. 500 mg/l st Guideline 209
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 1,01 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
Ecotoxicology Assessment Chronic aquatic toxicity	:	Harmful to aquatic	life with long lasting effects.
maleic anhydride:			
Toxicity to fish	:	LC50 (Lepomis ma Exposure time: 96 Method: EPA-660/	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia ma Exposure time: 48 Method: OECD Te	
Toxicity to algae/aquatic plants	:	EC50 (Pseudokircl mg/l Exposure time: 72 Method: OECD Te	

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Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)	 Exposure time 	
Ecotoxicology Assessment Chronic aquatic toxicity		nas no known ecotoxicological effects.
12.2 Persistence and degradabi	lity	
Components:		
styrene: Biodegradability	: Result: Readi Biodegradatic Exposure time	
maleic anhydride: Biodegradability	Biodegradatic Exposure time	
12.3 Bioaccumulative potential		
Components:		
styrene: Partition coefficient: n- octanol/water	: log Pow: 2,96	i (25 °C)
maleic anhydride: Partition coefficient: n- octanol/water	: log Pow: -2,6	1 (20 °C)
Talc: Partition coefficient: n- octanol/water	: log Pow: -9,4 pH: 7	(25 °C)
12.4 Mobility in soil No data available		
12.5 Results of PBT and vPvB a	ssessment	
Product: Assessment	to be either p	ce/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or nt and very bioaccumulative (vPvB) at levels of er.

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12.6 Endo	crine disrupting prop	ertie	es	
Produ	ict:			
Asses	sment	:	ered to have end 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.
12.7 Other	adverse effects			
Produ	ict:			
Addition mation	onal ecological infor- ו	:	No data available	
SECTION	13: Disposal consi	ider	ations	
13.1 Waste	e treatment methods			
			D	

Product	 Do not dispose of with domestic refuse. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Dispose of in accordance with local regulations. Dispose of wastes in an approved waste disposal facility. Send to a licensed waste management company.
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Store containers and offer for recycling of material when in accordance with the local regulations. Packaging that is not properly emptied must be disposed of as the unused product. Dispose of in accordance with local regulations.
Waste Code	 The following Waste Codes are only suggestions: 07 02 08, other still bottoms and reaction residues

SECTION 14: Transport information

14.1 UN number or ID number

ADN	: UN 1866	5
ADR	: UN 1866	5
RID	: UN 1866	5
IMDG	: UN 1866	5
ΙΑΤΑ	: UN 1866	5

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14.2 UN proper shipping name			
ADN	: RESIN SOLUTION		
ADR	: RESIN SOLUTION		
RID	: RESIN SOLUTION		
IMDG	: RESIN SOLUTION		
IATA	: Resin solution		
14.3 Transport hazard class(es)			
	Class Subsidiary risks		
ADN	,		
ADR	: 3		
RID	: 3		
	: 3		
	: 3		
14.4 Packing group			
ADN Packing group Classification Code Hazard Identification Number Labels	: III : F1 : 30 : 3		
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	: III : F1 : 30 : 3 : (D/E)		
RID Packing group Classification Code Hazard Identification Number Labels	: III : F1 : 30 : 3		
IMDG Packing group Labels EmS Code	: III : 3 : F-E, <u>S-E</u>		
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	: 366 : Y344 : III : Flammable Liquids		
IATA (Passenger) Packing instruction (passen-	: 355		

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14.	Packin Labels	g instruction (LQ) g group	:	Y344 III Flammable Liquid	ds
	ADN Enviroi	nmentally hazardous	:	no	
	ADR Enviror	nmentally hazardous	:	no	
	RID Enviro	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, 3
		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
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

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	Seveso III: Directive 2012/18 pean Parliament and of the C control of major-accident haz dangerous substances.	Coun	cil on the	P5c	FLAMMABLE LIQUIDS	
	Water hazard class (Germa- ny)	:			azardous to water ding to AwSV, Annex 1 (5.2)	
	Volatile organic compounds	:	Volatile orga	anic com	C npounds (VOC) content: < 250 g product in a ready to use condit	

Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

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

SECTION 16: Other information

Full text of H-Statements

H226 H302 H304 H314 H315 H317 H318 H319 H332 H334 H335 H361d H372		Flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause respiratory irritation. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure if inhaled. Causes damage to organs through prolonged or repeated
H412	•	exposure. Harmful to aquatic life with long lasting effects.
EUH071	:	Corrosive to the respiratory tract.

Full text of other abbreviations

according to Regulation (EC) No. 1907/2006

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3.0 DE / EN Acute Tox. Aquatic Chronic Asp. Tox. Eye Dam. Eye Irrit. Flam. Liq. Repr. Resp. Sens. Skin Corr. Skin Irrit. Skin Sens. STOT RE STOT SE 2004/37/EC DE TRGS 900 TRGS 903 2004/37/EC / TWA	 Acute toxicity Long-term (ch Aspiration haz Serious eye d Eye irritation Flammable liq Reproductive Respiratory se Skin corrosion Skin sensitiza Specific targe Europe. Director from the risks at work 	hronic) aquatic hazard zard damage quids toxicity ensitization n ation et organ toxicity - repeated exposure et organ toxicity - single ex
DE TRGS 900 / AGW	: Time Weighte	ed Average

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

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Fu	rther information		
Cla	assification of the m	nixture:	Classification procedure:
Fla	am. Liq. 3	H226	Based on product data or assessment
Sk	in Irrit. 2	H315	Calculation method
Ey	e Irrit. 2	H319	Calculation method
Sk	in Sens. 1	H317	Calculation method
Re	pr. 2	H361d	Calculation method
ST	OT RE 1	H372	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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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier				
	Trade name	:	BPO-Härter rot	
	Product code	:	152.598	
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against	
	Use of the Sub- stance/Mixture	:	Curing chemical	
	Recommended restrictions on use	:	Industrial use, professional use, public use	
1.3	Details of the supplier of the	sa	fety 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	: F	Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch	
	Francisco de la relación			

1.4 Emergency telephone

Telephone	То	ox Info Suisse	(STIZ), Tel: 145
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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) Organic peroxides, Type E H242: Heating may cause a fire.					
Eye irritation, Category 2	H319: Causes serious eye irritation.				
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.				
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.				
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.				

2.2 Label elements

Labelling	(REGULATION	(EC) No	1272/2008)	
			L	

÷

Hazard pictograms



Signal Word	:	Warning	
Hazard Statements	:	H317 H319	Heating may cause a fire. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precautionary Statements	:	1	If medical advice is needed, have product con- tainer or label at hand. Keep out of reach of children.
		Prevention:	
			Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		:	Keep/Store away from clothing/ strong acids, ba- ses, heavy metal salts and other reducing sub- stances /combustible materials.
			Keep only in original packaging.
			Avoid release to the environment.
			Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		P302 + P352	IF ON SKIN: Wash with plenty of soap and water.

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

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		ter pre	P338 IF IN EYES: Rinse cautiously with wa- for several minutes. Remove contact lenses, if sent and easy to do. Continue rinsing. t medical advice/ attention if you feel unwell.
		Storage:	
			Store in a well-ventilated place. Keep cool. otect from sunlight.
		Disposal:	
		fac	pose of contents/ container to an approved ility in accordance with local, regional, national d international regulations.

Hazardous ingredients which must be listed on the label:

dibenzoyl peroxide

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 : Mixture contains Organic Peroxide

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		· · · ·
	Registration number		
dibenzoyl peroxide	94-36-0 202-327-6 617-008-00-0 01-2119511472-50	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 45 - <= 52
		M-Factor (Acute	

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

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ersion 4	DE / EN	Revision Date:Date of last issue: 27.02DE / EN25.03.2024Date of first issue: 11.07			
			aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10		
ethar	nediol	107-21-1 203-473-3 603-027-00-1 01-21194568	Acute Tox. 4; H302 STOT RE 2; H373 (Kidney)	>= 1 - < 10	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

 In the case of accident or if you feel unwell, seek medical advice immediately. Move out of dangerous area. Take off contaminated clothing and shoes immediately. Show this material safety data sheet to the doctor in attendance. First aider needs to protect himself.
: Move to fresh air. Get medical attention.
: Wash off immediately with soap and plenty of water. Call a physician if irritation persists.
 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses. Consult a physician.
: Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.
s and effects, both acute and delayed
: May cause an allergic skin reaction. Causes serious eye irritation.
ate medical attention and special treatment needed
: Treat symptomatically.

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)

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

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				Dry powder Water spray jet Alcohol-resistant f	ōam
	Unsuita media	able extinguishing	:	High volume wate	r jet
5.2 \$	Special	hazards arising from	the	substance or mix	kture
	Specific fighting		:	Hazardous decom tions.	nposition products formed under fire condi-
5.3	Advice	for firefighters			
	•	l protective equipment fighters	:	Wear self-contain	ed breathing apparatus and protective suit.
	Further	information	:	Collect contamina must not be disch Fire residues and	o cool unopened containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.

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. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not smoke. Avoid contact with skin, eyes and clothing. In the case of vapor formation use a respirator with an ap- proved filter.
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6.2 Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system.
		Local authorities should be advised if significant spillages
		cannot be contained.

6.3 Methods and material for containment and cleaning up

Do not flush with water.

6.4 Reference to other sections

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

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

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7.3

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SECTION 7: Handling and storage

7.1 Precautions for safe handling Technical measures : Ensure that eyewash stations and safety showers are close to the workstation location. Advice on safe handling : Use only with adequate ventilation.

Advice on sale handling		 Disc only with adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Keep away from heat and sources of ignition. Handle and open container with care. Keep container tightly closed and dry. Never return unused material to storage receptacle. Risk of decomposition. Prevent contamination with readily oxidizable materials and polymerization accelerators. Avoid inhalation of vapor or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid release to the environment.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight. Avoid shock and friction. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment.

7.2 Conditions for safe storage, including any incompatibilities

oblighter of the storage,	inc	
Requirements for storage areas and containers	:	Store in original container. Avoid letting the product become dry. Keep containers tightly closed in a cool, well-ventilated place. Store between 41 and 77 °F in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.
Advice on common storage	:	Keep away from food, drink and animal feedingstuffs. Keep away from reducing agents. Incompatible with acids and bases. Heavy metal compounds
Storage class (TRGS 510)	:	5.2
Recommended storage tem- perature	:	5 - 25 °C
Specific end use(s)		
Specific use(s)	:	No data available The rules which cover amongst other things the requirement for ventilation, protective clothing, personal protective equip- ment etc. can be obtained from the National Occupational

Health and Safety Board.

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

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
dibenzoyl peroxide	94-36-0	AGW (Inhalable fraction)	5 mg/m3	DE TRGS 900		
	Peak-limit cat	egory: 1;(I)				
		MAK (measured	1 mg/m3	DE DFG MAK		
		as the alveolate fraction)				
		nation: Damage to th the BAT value is ob	e embryo or foetus is unlikely served	/ when the		
		MAK (inhalable fraction)	4 mg/m3	DE DFG MAK		
		nation: Damage to th the BAT value is ob	e embryo or foetus is unlikely served	/ when the		
ethanediol	107-21-1	STEL	40 ppm 104 mg/m3	2000/39/EC		
	Further information: Identifies the possibility of significant uptake through the skin, Indicative					
		TWA	20 ppm 52 mg/m3	2000/39/EC		
	Further information: Identifies the possibility of significant uptake through the skin, Indicative					
		AGW (Vapour and aerosols)	10 ppm 26 mg/m3	DE TRGS 900		
	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 26 mg/m3	DE DFG MAK		
	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 observed					

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
dibenzoyl peroxide	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	13,3 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	39 mg/m3
ethanediol	Workers	Inhalation	Long-term local ef- fects	35 mg/m3
	Workers	Dermal	Long-term systemic effects	106 mg/kg

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

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		Consumers	Inhalation	Long-term local ef- fects	7 mg/m3
		Consumers	Dermal	Long-term systemic effects	53 mg/kg

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

Substance name	Environmental Compartment	Value
dibenzoyl peroxide	Fresh water	0,00002 mg/l
	Intermittent use/release	0,000602 mg/l
	Sea water	0,000002 mg/l
	Fresh water sediment	0,0127 mg/kg dry weight (d.w.)
	Sea sediment	0,00127 mg/kg dry weight (d.w.)
	Soil	0,0025 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	0,35 mg/l
ethanediol	Fresh water	10 mg/l
	Sea water	1 mg/l
	Intermittent use/release	10 mg/l
	Sewage treatment plant (STP)	199,5 mg/l
	Fresh water sediment	20,9 mg/kg
	Soil	1,53 mg/kg

8.2 Exposure controls

Personal protective equipm Eye/face protection	afety glasses with side-shields conf	orming to EN166
Hand protection Material	eoprene gloves	
Material Break through time Glove thickness Directive Protective index	trile rubber 30 min = 0,14 mm IN EN 374 ass 2	
Remarks	loves should be discarded and replation of degradation or chemical bre bout break through time/strength of lues! The exact break through time be obtained from the producer of the loce of an appropriate glove does r aterial but also on other quality feat on one producer to the other.	eakthrough. The data material are standard strength of material has ne protective glove. The not only depend on its
Skin and body protection	ease wear suitable protective clothi heat-resistant synthetic fibres. ong sleeved clothing	ng, e.g. made of cotton
Respiratory protection	oply technical measures to comply to posure limits.	with the occupational

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

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		limit they must	are facing concentrations above the exposure use appropriate certified respirators. lequate ventilation wear respiratory protection.	
I	Filter type	: Combined par	ticulates and organic vapor type (A-P)	
Pro	tective measures	Ensure that ey located close t Avoid contact	 When using do not eat, drink or smoke. Ensure that eye flushing systems and safety showers are located close to the working place. Avoid contact with the skin and the eyes. Use only with adequate ventilation. 	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	• •
Color	:	red
Odor	:	characteristic
Odor Threshold	:	not determined
Melting point/range	:	0 °C
Boiling point/boiling range	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable, Decomposition
Autoignition temperature	:	Not applicable
Self-Accelerating decomposi- tion temperature (SADT)	:	50 °C

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

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рН	: 4 - 5 (20 °C)	
Viscosity Viscosity, dynamic	: not determined	
Viscosity, kinematic	: not determined	
Solubility(ies) Water solubility	: insoluble	
Partition coefficient: n- octanol/water	: No data availabl	e
Vapor pressure	: 23 hPa (for a componen	t of this mixture)
Density	: 1,15 - 1,25 g/cm	3 (20 °C)
Relative vapor density	: not determined	
9.2 Other information		
Oxidizing properties	: Organic peroxide	e
	Sustains combu	stion
Organic peroxides	: Peroxide conten The substance c type E.	t: 50 % or mixture is an organic peroxide classified as

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	: Risk of decomposition.
	Reacts violently in contact with acids, amines, driers, polymer-
	ization accelerators and easily oxidized materials.

10.4 Conditions to avoid

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

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Cond	itions to avoid	Extremes Keep awa Contact w	oose to temperatures above: > 25 °C of temperature and direct sunlight. y from heat and sources of ignition. th incompatible substances can cause decomposi- below SADT.
10.5 Incor	mpatible materials		
Mater	rials to avoid		rs, strong acids and bases, heavy metals and al salts, reducing agents

10.6 Hazardous decomposition products

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

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 data.					
Product: Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg			
		Method: Calculation method			
Components:					
dibenzoyl peroxide:					
Acute oral toxicity	:	LD50 Oral (Rat): > 2.000 mg/kg			
Acute inhalation toxicity	:	LC0 (Rat): > 24,3 mg/l Exposure time: 4 h			
ethanediol:					
Acute inhalation toxicity	:	LC50 (Rat): > 2,5 mg/l Exposure time: 6 h Test atmosphere: dust/mist			
Acute dermal toxicity	:	LD50 Dermal (Mouse): > 3.500 mg/kg			
Skin corrosion/irritation	nta				
Serious eye damage/eye irritation					
Causes serious eye irritation.					
Respiratory or skin sensitization					
Skin sensitization					
NAL					

May cause an allergic skin reaction.

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

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	Respiratory sensitization Not classified due to lack of	data.	
	Germ cell mutagenicity Not classified due to lack of	data.	
	Carcinogenicity Not classified due to lack of	data.	
	Reproductive toxicity Not classified due to lack of	data.	
	STOT-single exposure Not classified due to lack of	data.	
	STOT-repeated exposure Not classified due to lack of	data.	
9	Components:		
 -	ethanediol: Routes of exposure Target Organs Assessment		e or mixture is classified as specific target organ ated exposure, category 2.
	Aspiration toxicity Not classified due to lack of	data.	
<u>(</u>	Components:		
	ethanediol: No aspiration toxicity classit	ication	
11.2	Information on other haza	rds	
I	Endocrine disrupting pro	perties	

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:

dibenzoyl peroxide:

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

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Toxicity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
		NOEC (Oncorhyn Exposure time: 96	chus mykiss (rainbow trout)): 0,0316 mg/l s h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
		NOEC (Daphnia n Exposure time: 48 Method: OECD Te	
Toxicity to algae/aquatic plants	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
		NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
M-Factor (Acute aquatic tox- icity)	:	10	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC10: 0,001 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
M-Factor (Chronic aquatic toxicity)	:	10	
ethanediol:			
Toxicity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 72.860 mg/l s h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity to algae/aquatic plants	:	NOEC (algae): > 7 Exposure time: 72 Method: OECD Te	h .
Toxicity to fish (Chronic tox- icity)	:	NOEC: 15.380 mg Exposure time: 7 d Species: Pimepha	

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

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aqua	icity to daphnia and other atic invertebrates (Chron- xicity)		NOEC: 8.590 mg Exposure time: 7 Species: Cerioda	
12.2 Per	sistence and degradabil	lity		
Con	nponents:			
dibe	enzoyl peroxide:			
Bioc	legradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	71 %
etha	anediol:			
Bioc	legradability	:	Result: Readily b Biodegradation: Exposure time: 1 Method: OECD T	90 - 100 %
12.3 Bio	accumulative potential			
Con	nponents:			
Part	enzoyl peroxide: ition coefficient: n- nol/water	:	log Pow: 3,2 (20	°C)
othe	anediol:			
Part	ition coefficient: n- nol/water	:	log Pow: -1,36 (2	5 °C)
	bility in soil data available			
12.5 Res	ults of PBT and vPvB a	sse	ssment	
	<u>duct:</u> essment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Enc	locrine disrupting prope	ertie	es	
Pro	duct:			
	essment	:	ered to have end 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

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

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		levels of 0.1%	6 or higher.
12.7 Other	adverse effects		
Produ Additic mation	onal ecological infor-	: No data avail	able
SECTION	13: Disposal cons	iderations	
13.1 Waste	treatment methods		
Produc	ct	Do not dispos Do not empty tainer at haza	aste streams during collection. se of with domestic refuse. v into drains, dispose of this material and its con- ardous or special waste collection point. accordance with local regulations.
Contar	ninated packaging	the unused p	at is not properly emptied must be disposed of as roduct. accordance with local regulations.
Waste	Code	16 05 06, lab hazardous su icals	Waste Codes are only suggestions: oratory chemicals, consisting of or containing ibstances, including mixtures of laboratory chem- roxides, for example hydrogen peroxide

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 3108
ADR	:	UN 3108
RID	:	UN 3108
IMDG	:	UN 3108
ΙΑΤΑ	:	UN 3108
14.2 UN proper shipping name		
ADN	:	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
ADR	:	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
RID	:	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
IMDG	:	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)

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

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ΙΑΤΑ	: Organic peroxid (dibenzoyl perox	
14.3 Transport hazard class(es)		
	Class	Subsidiary risks
ADN	: 5.2	
ADR	: 5.2	
RID	: 5.2	
IMDG	: 5.2	
ΙΑΤΑ	: 5.2	HEAT
14.4 Packing group		
ADN Packing group Classification Code Labels	: Not assigned by : P1 : 5.2	regulation
ADR Packing group Classification Code Labels Tunnel restriction code	: Not assigned by : P1 : 5.2 : (D)	regulation
RID Packing group Classification Code Hazard Identification Number Labels	: Not assigned by : P1 : 539 : 5.2	regulation
IMDG Packing group Labels EmS Code	: Not assigned by : 5.2 : F-J, S-R	regulation
IATA (Cargo) Packing instruction (cargo aircraft)	: 570	
Packing group Labels	: Not assigned by : Organic Peroxid	regulation les, Keep Away From Heat
IATA (Passenger) Packing instruction (passen- ger aircraft)	: 570	
Packing group Labels	: Not assigned by : Organic Peroxid	r regulation les, Keep Away From Heat
14.5 Environmental hazards		
ADN Environmentally hazardous	: no	
ADR Environmentally hazardous	: no	

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

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RID

Environmentally hazardous : no IMDG Marine pollutant : yes

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 the market and use of certain dangerous substa mixtures and articles (Annex XVII)	•	lowir Num If yo	ditions of restriction for the fol- ng entries should be considered: ober on list 75 u intend to use this product as o ink, please contact your ven-
REACH - Candidate List of Substances of Very Concern for Authorization (Article 59).	High	Not	applicable
Regulation (EC) No 1005/2009 on substances the plete the ozone layer	hat de-	Not	applicable
Regulation (EU) 2019/1021 on persistent organi tants (recast)	c pollu-	Not	applicable
REACH - List of substances subject to authorisa (Annex XIV)	ation	Not	applicable
Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	A		ACTIVE SUBSTANCES TURES and ORGANIC DES
	E1 EI	NVIROI	NMENTAL HAZARDS
Water hazard class (Germa- : WGK 2 obvio ny) Classification			water V, Annex 1 (5.2)

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Other regulations:

BG-Merkblatt M001 beachten (German regulatory requirements) BGV B4 organische Peroxide. (German regulatory requirements)

Gefahrengruppe nach § 3 BGV B4: II (German regulatory requirements) § 5Abs. 4b : Derogation according to the Ordinance on the Prohibition of Chemicals (ChemVerbotsV)

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

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

SECTION 16: Other information

Full text of H-Statements

Tun text of H-otatements				
H241	:	Heating may cause a fire or explosion.		
H302	:	Harmful if swallowed.		
H317	:	May cause an allergic skin reaction.		
H319	:	Causes serious eye irritation.		
H373	:	May cause damage to organs through prolonged or repeated exposure if swallowed.		
H400	:	Very toxic to aquatic life.		
H410	:	Very toxic to aquatic life with long lasting effects.		
Full text of other abbreviation	ons			
Acute Tox.	:	Acute toxicity		
Aquatic Acute	:	Short-term (acute) aquatic hazard		
Aquatic Chronic	:	Long-term (chronic) aquatic hazard		
Eye Irrit.	:	Eye irritation		
Org. Perox.	:	Organic peroxides		
Skin Sens.	:	Skin sensitization		
STOT RE	:	Specific target organ toxicity - repeated exposure		
2000/39/EC		Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values		
DE DFG MAK	:	- · · · · · · · · · · · · · · · · · · ·		
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.		
2000/39/EC / TWA	:	Limit Value - eight hours		
2000/39/EC / STEL		Short term exposure limit		
DE DFG MAK / MAK				
DE TRGS 900 / AGW	:	Time Weighted Average		

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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:		Classification procedure:
Org. Perox. E	H242	Based on product data or assessment
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	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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