according to Regulation (EC) No. 1907/2006

Carsystem Multi Green SF

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

1.1 Product identifier	
Trade name	: Carsystem Multi Green SF
Product code	: 156.543
1.2 Relevant identified uses of t	he substance or mixture and uses advised against
Use of the Sub- stance/Mixture	: Body filler/stopper
Recommended restrictions on use	: Industrial use, professional use
1.3 Details of the supplier of th	e safety data sheet
Company	: JASA AG Müslistrasse 43 8957 Spreitenbach Schweiz
	info@jasa-ag.ch, www.jasa-ag.ch
Telephone Telefax	: +41 (0)44 431 60 70 : +41 (0)44 432 63 17
Responsible Department	: Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

1.4 Emergency telephone

Telephone : Tox Info Suisse (STIZ), Te	phone	Tox Info Suisse (STIZ), Tel: 145
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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.
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal	Word

: Warning

Hazard Statements

- H226 Flammable liquid and vapor.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : Pre

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust / mist / vapours.
P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regu-

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lations.

Hazardous ingredients which must be listed on the label:

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

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3.2 Mixtures

Chemical nature

Mixture contains Resin

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
vinyltoluene	25013-15-4 246-562-2 01-2119622074-50, 01-2120106403-73	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 10 - < 20
maleic anhydride	108-31-6 203-571-6 607-096-00-9 01-2119472428-31	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 (Respiratory system) EUH071	>= 0,001 - < 0,1

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		specific concentration limit Skin Sens. 1A; H317 >= 0,001 % Acute toxicity esti- mate Acute oral toxicity:
Substances with a Talc	workplace exposure limit : 14807-96-6 238-877-9	1.090 mg/kg >= 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	:	Remove person to fresh air. If signs/symptoms continue, get medical attention. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician if irritation develops or persists.
In case of eye contact	:	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	:	Do NOT induce vomiting. Call a physician immediately.

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4.2 Most important symptoms and e Risks :			effects, both acute and delayed Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.		
4.3 In	dication of any immediate	me	dical attention and	d special treatment needed	
Т	reatment	:	Treat symptomati Keep under medi	cally. cal supervision for at least 48 hours.	
SECT	FION 5: Firefighting measured	sur	es		
	xtinguishing media Suitable extinguishing media	:	Carbon dioxide ((Dry powder Water spray jet Alcohol-resistant		
	Insuitable extinguishing nedia	:	High volume wate	er jet	
5.2 Special hazards arising from the substance or mixture				xture	
S	specific hazards during fire ghting	:		erous/toxic fumes possible in cases of	
	lazardous combustion prod- cts	:	bustion	nposition products due to incomplete com-	
5.3 Ac	dvice for firefighters				
	pecial protective equipment or fire-fighters	:		e, wear self-contained breathing apparatus. tective equipment.	
F	urther information	:	Collect contamina must not be disch Fire residues and be disposed of in	to cool unopened containers. ated fire extinguishing water separately. This harged into drains. contaminated fire extinguishing water must accordance with local regulations. e and/or explosion do not breathe fumes.	

SECTION 6: Accidental release measures

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.
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		Avoid contact	with skin, eyes and clothing.	
6.2 Enviro	onmental precautions			
Enviro	onmental precautions		to surface water or sanitary sewer system. contaminates rivers and lakes or drains inform horities.	
6.3 Metho	ds and material for co	ntainment and clea	aning 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 Refere	ence to other sections			
For persor	nal protection see section	on 8., For disposal co	onsiderations see section 13.	
SECTION	7: Handling and st	orage		

7.1 Precautions for safe handling

i recautions for sale nanuling	1	
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.
Advice on protection against fire and explosion	:	Vapors may form explosive mixtures with air. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic

charge. Use explosion-proof equipment.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.
Further information on stor- age conditions	:	Keep away from heat and sources of ignition. Keep away from direct sunlight.
Advice on common storage	:	Incompatible with oxidizing agents. Keep away from food and drink.
Storage class (TRGS 510)	:	3
7.3 Specific end use(s) Specific use(s)	:	No data available

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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		
Talc	14807-96-6	AGW (Inhalable fraction)	10 mg/m3	DE TRGS 900		
	Peak-limit cat	egory: 2;(II)				
			compliance with the OEL a	nd biological		
	tolerance valu	ies, there is no risk o	of harming the unborn child	-		
		AGW (Alveolate fraction)	1,25 mg/m3	DE TRGS 900		
	Peak-limit cat	egory: 2;(II)				
			compliance with the OEL a	nd biological		
	tolerance valu	ies, there is no risk o	of harming the unborn child	-		
		TWA (Respirable dust)	0,1 mg/m3	2004/37/EC		
	Further inform	nation: Carcinogens	or mutagens			
vinyltoluene	25013-15-4	AGW	20 ppm 98 mg/m3	DE TRGS 900		
	Peak-limit cat	egory: 2;(I)				
Barium sulphate	7727-43-7	AGW (Inhalable fraction)	10 mg/m3	DE TRGS 900		
	Peak-limit category: 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	DE TRGS		
		fraction)		900		
	Peak-limit category: 2;(II)					
	Further information: When there is compliance with the OEL and biological					
		ies, there is no risk o	of harming the unborn child			
Titanium dioxide	13463-67-7	AGW (Inhalable	10 mg/m3	DE TRGS		
		fraction)	(Titanium dioxide)	900		
	Peak-limit category: 2;(II)					
		Further information: When there is compliance with the OEL and biological				
	tolerance valu		of harming the unborn child			
		AGW (Alveolate	1,25 mg/m3	DE TRGS		
	fraction) (Titanium dioxide) 900					
	Peak-limit category: 2;(II)					
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					
maleic anhydride	108-31-6	AGW (Vapour and aerosols)	0,02 ppm 0,081 mg/m3	DE TRGS 900		
	Peak-limit category: 1; =2.5=(I)					
	Further inform tablished, that in combination	nation: In well-found t never can be excee n with an exceeding	cases also a momentary val eded. This substance will be value., When there is compl es, there is no risk of harmin	indicated by = = iance with the		

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child, Substance sensitizing through the skin and respiratory system

Derived No Effect Level	DNEL) acc	ordina to Re	egulation (E	EC) No.	1907/2006:
Derived No Ericot Lever		oraning to ite	galation (E	-0) 110.	1001/2000.

	· · ·	0 0	· · /	
Substance name	End Use	Routes of expo- sure	Potential health ef- fects	Value
vinyltoluene	Workers	Inhalation	Long-term systemic effects	5,82 mg/m3
	Workers	Dermal	Long-term systemic effects	1,65 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,595 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	0,595 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,03 mg/m3
maleic anhydride	Workers	Inhalation	Long-term systemic effects	0,081 mg/m3
	Workers	Inhalation	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
vinyltoluene	Fresh water	0,000319 mg/l
	Sea water	0,000032 mg/l
	Fresh water sediment	0,032 mg/kg dry weight (d.w.)
	Sea sediment	0,0032 mg/kg dry weight (d.w.)
	Soil	0,00621 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	5,92 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 equipment

Eye/face protection	:	Safety glasses with side-shields conforming to EN166
Hand protection		
Material	:	Fluorinated rubber
Break through time	:	> 480 min
Glove thickness	:	>= 0,4 mm
Directive	:	DIN EN 374
Protective index	:	Class 6

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Material Break through time Glove thickness Directive Protective index	 Nitrile rubber > 480 min >= 0,4 mm DIN EN 374 Class 6 	
Remarks	cation of degr about break th values! The e to be obtained choice of an a material but a from one proc	d be discarded and replaced if there is any indi- adation or chemical breakthrough. The data brough time/strength of material are standard xact break through time/strength of material has d from the producer of the protective glove. The appropriate glove does not only depend on its lso on other quality features and is different lucer to the other. Preventive skin protection are not suitable. Avoid natural rubber gloves.
Skin and body protection		suitable protective clothing, e.g. made of cotton ant synthetic fibres. clothing
Respiratory protection	exposure limit If exposure can haust ventilati should be use Dry sanding, f al will give rise Use the indica	annot be avoided by the provision of local ex- on, suitable respiratory protective equipment
Filter type	: Combined par	rticulates and organic vapor type (A-P)
Protective measures	located close Avoid contact	ye flushing systems and safety showers are to the working place. with the skin and the eyes. adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: past	te
Color	: light	green
Odor	: aror	natic
Melting point/freezing point	: -76, Liter	8 °C rature value vinyltoluene
Boiling point/boiling range	: 168	°C

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	Literature value vinyltoluene	
Upper explosion limit / Upper flammability limit	: 6,1 %(V) Literature value vinyltoluene	
Lower explosion limit / Lower flammability limit	: 1,9 %(V) Literature value vinyltoluene	
Flash point	: 53 °C Literature value vinyltoluene	
Autoignition temperature	: 575 °C Literature value vinyltoluene	
Decomposition temperature	: No data available	
рН	: Not applicable substance/mixture is non-soluble (in wa	ater)
Viscosity Viscosity, dynamic	: not determined	
Viscosity, kinematic	: not determined	
Solubility(ies) Water solubility	: insoluble	
Partition coefficient: n- octanol/water	: No data available	
Vapor pressure	: 2 hPa (20 °C) Literature value vinyltoluene	
Density	: ca. 1,7 g/cm3 (20 °C)	
Relative vapor density	: No data available	
9.2 Other information		
Explosives	: Not explosive In use, may form flammable/explosive vapor-air mixtu	ıre.
Flammability (liquids)	: Flammable	
Self-ignition	: not auto-flammable	

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

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	nical stability ecomposition if stored a	and applied as directed	
10.3 Poss	sibility of hazardous re	eactions	
Haza	rdous reactions	metals. Polymerization mic reaction and	rming starting agents, peroxides and reactive can occur.Polymerization is a highly exother- d may generate sufficient heat to cause ther- tion and/or rupture containers.
10.4 Con	ditions to avoid		
Conc	litions to avoid	: Heat, flames an Strong sunlight	d sparks. for prolonged periods.
10.5 Inco	mpatible materials		

Materials to avoid	: Strong acids and oxidizing agents
	polymerization initiators

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:		
vinyltoluene:		
Acute oral toxicity	:	LD50 Oral (Rat): 3.375 mg/kg
Acute inhalation toxicity	:	LC50: > 16,89 mg/l Exposure time: 4 h Test atmosphere: vapor Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 4.585 mg/kg
maleic anhydride:	:	LD50 Oral (Rat): 1.090 mg/kg
Acute oral toxicity		Method: OECD Test Guideline 401

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	Acute inhalation toxicity	:	LC50 (Rat): > 4,3 Exposure time: 1 Test atmosphere: Assessment: The tion toxicity	h
	Acute dermal toxicity	:	LD50 Dermal (Ra	bbit): 2.620 mg/kg
	Talc:			
	Acute oral toxicity	:	LD50 Oral (Rat): Method: OECD To	
	Acute inhalation toxicity	:	Assessment: The tion toxicity	substance or mixture has no acute inhala-
	Acute dermal toxicity	:	LD50 Dermal (Ra Method: OECD To	
	Skin corrosion/irritation Causes skin irritation.			
	Components:			
	vinyltoluene:			
	Assessment Result	:	Irritating to skin. Skin irritation	
	Serious eye damage/eye irri Causes serious eye irritation.	tati	on	
	Components:			
	vinyltoluene:			
	Assessment Result	:	Irritating to eyes. Moderate eye irrit	ation
	Respiratory or skin sensitiza	atio	n	
	Skin sensitization May cause an allergic skin rea	actio	on.	
	Respiratory sensitization Not classified based on availa	ble	information.	
	Components:			
	maleic anhydride: Result	:	The product is a s	kin sensitizer, sub-category 1A.

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Not		y available information.	
	cinogenicity classified based on	available information.	
-	oroductive toxicity classified based on	available information.	
	DT-single exposure classified based on	available information.	
	DT-repeated expos classified based on	ure available information.	
<u>Cor</u>	mponents:		
Rou Targ	eic anhydride: ites of exposure get Organs essment	: Inhalation : Respiratory : Causes dar exposure.	system nage to organs through prolonged or repeated
•	Diration toxicity classified based on	available information.	
<u>Cor</u>	nponents:		

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

vinyltoluene:

: 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:

vinyltoluene:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 5,2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxicity to algae/aquatic plants		EC50 (Desmodes Exposure time: 72 Method: OECD T	
		NOEC (Desmode Exposure time: 72 Method: OECD T	
M-Factor (Acute aquatic tox- icity)	:	1	
maleic anhydride:			
Toxicity to fish		LC50 (Lepomis m Exposure time: 96 Method: EPA-660	
Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity to algae/aquatic plants		EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		NOEC: 10 mg/l Exposure time: 2' Species: Daphnia	l d magna (Water flea)
Ecotoxicology Assessment Chronic aquatic toxicity	:	This product has	no known ecotoxicological effects.
12.2 Persistence and degradabil	ity		
Components:			
vinyltoluene:			
Biodegradability		Result: Not readily Biodegradation: 3 Exposure time: 28 Method: OECD T	36,7 %
maleic anhydride:			
Biodegradability		Result: Readily bi Biodegradation:	

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			Exposure time: 22 Method: OECD To	25 d est Guideline 301B
12.3 Bioac	cumulative potential			
<u>Comp</u>	onents:			
vinylte	oluene:			
Bioaco	cumulation	:	Concentration: 86	5,7 mg/l
	on coefficient: n- bl/water	:	log Pow: 3,44	
maleid	c anhydride:			
	on coefficient: n- ol/water	:	log Pow: -2,61 (20) °C)
Talc:				
	on coefficient: n- bl/water	:	log Pow: -9,4 (25 pH: 7	°C)
12.4 Mobil	ity in soil			
No dat	ta available			
12.5 Resul	ts of PBT and vPvB a	sse	ssment	
<u>Produ</u>	<u>ct:</u>			
Asses	sment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
12.6 Endo	crine disrupting prope	ertie	S	
Produ	ct:			
Asses		:	ered to have endo REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to '(f) or Commission Delegated regulation r Commission Regulation (EU) 2018/605 at higher.
12.7 Other	adverse effects			
Produ Additic matior	onal ecological infor-	:	No data available	

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
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	
ADR	:	UN 1866	
RID	:	UN 1866	
IMDG	:	UN 1866	
ΙΑΤΑ	:	UN 1866	
14.2 UN proper shipping name			
ADN	:	RESIN SOLUTION	
ADR	:	RESIN SOLUTION	
RID	:	RESIN SOLUTION	
IMDG	:	RESIN SOLUTION	
ΙΑΤΑ	:	Resin solution	
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADN	:	3	
ADR	:	3	
RID	:	3	
IMDG	:	3	

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IATA 14.4 Packing group	: 3	
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 Liqu	ids
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	: 355 : Y344 : III : Flammable Liqu	ids
14.5 Environmental hazards		
ADN Environmentally hazardous	: no	
ADR Environmentally hazardous	: no	
RID Environmentally hazardous IMDG	: no	
Marine pollutant	: no	

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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 pollutants (recast)	- : Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: 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.	FLAMMABLE LIQUIDS
Water hazard class (Germa- : WGK 2 obviously h ny) Classification accor	azardous to water ding to AwSV, Annex 1 (5.2)
	C npounds (VOC) content: < 250 g/l 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.

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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	Flammable liquid and vapor.
H302 :	Harmful if swallowed.
H304 :	May be fatal if swallowed and enters airways.
H314 :	Causes severe skin burns and eye damage.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H332 :	Harmful if inhaled.
H334 :	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.
H372 :	Causes damage to organs through prolonged or repeated exposure if inhaled.
H400 ::	Very toxic to aquatic life.
H411 :	Toxic to aquatic life with long lasting effects.
EUH071 :	Corrosive to the respiratory tract.
Full text of other abbreviation	5
Acute Tox.	Acute toxicity
Aquatic Acute	Short-term (acute) aquatic hazard
	Long-term (chronic) aquatic hazard
	Aspiration hazard
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Resp. Sens.	Respiratory sensitization
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
2004/37/EC	Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
DE TRGS 900	Germany. TRGS 900 - Occupational exposure limit values.
2004/37/EC / TWA	Long term exposure limit
DE TRGS 900 / AGW	Time Weighted 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 -

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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:	
Flam. Liq. 3	H226	Based on product data or assessment	
Skin Irrit. 2	H315	Calculation method	
Eye Irrit. 2	H319	Calculation method	
Skin Sens. 1	H317	Calculation method	
Aquatic Chronic 3	H412	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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2.4	DE / EN	25.03.2024	Date of first issue: 11.07.2022

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

1.1 Product identifier	
Trade name	: BPO-Härter rot
Product code	: 124.630
1.2 Relevant identified uses of t	he substance 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 th	e safety data sheet
Company	: JASA AG Müslistrasse 43 8957 Spreitenbach Schweiz
	info@jasa-ag.ch, www.jasa-ag.ch
Telephone Telefax	: +41 (0)44 431 60 70 : +41 (0)44 432 63 17
Responsible Department	: Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

1.4 Emergency telephone

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

2

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: 27.02.202425.03.2024Date of first issue: 11.07.2022				
			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 ob- served				

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 Othe	r adverse effects		
<u>Produ</u> Additi matio	onal ecological infor-	: No data avail	able
SECTION	13: Disposal cons	iderations	
13.1 Wast	e treatment methods		
Produ	ıct	Do not dispos Do not empty tainer at haza	aste streams during collection. se of with domestic refuse. r into drains, dispose of this material and its con- ardous or special waste collection point. accordance with local regulations.
Conta	aminated packaging	the unused p	at is not properly emptied must be disposed of as roduct. accordance with local regulations.
Waste	e 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- oxides, 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)

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ΙΑΤΑ	: Organic peroxic (dibenzoyl pero	
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) Packing group	: 570 : Not assigned by	/ regulation
Labels		des, Keep Away From Heat
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing group Labels	: 570 : Not assigned by : Organic Peroxic	/ regulation des, Keep Away From Heat
14.5 Environmental hazards		
ADN Environmentally hazardous	: no	
ADR Environmentally hazardous	: no	

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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

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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