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

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

1.1 Product identifier	
Trade name	: Carsystem Polyester Reparaturset
Product code	: 126.054
1.2 Relevant identified uses of	of the substance or mixture and uses advised against
Use of the Sub- stance/Mixture	: Resins
Recommended restrictions on use	Reserved for industrial and professional use.
1.3 Details of the supplier of	the 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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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.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Specific target organ toxicity - single ex- posure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through pro- longed or repeated exposure.
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard	pictograms
--------	------------

Hazard pictograms	:		
Signal Word	:	Danger	
Hazard Statements	:	H226 H315 H319 H335 H361d H372 H412	Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary Statements	:	Prevention	:
-		P201 P210	Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P260 P271 P280	Do not breathe mist or vapors. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection.

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			 1 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 3 IF exposed or concerned: Get medical advice/ attention.
		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

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

Resin

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		· · · ·
	Registration number		
styrene	100-42-5	Flam. Liq. 3; H226	>= 30 - < 50
	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)	

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		STOT RE 1; H372 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Acute toxicity esti- mate	
		Acute inhalation tox- icity (vapor): 11,8 mg/l	
1,4-naphthoquinone	130-15-4 204-977-6 01-212076046	Acute Tox. 3; H301 Acute Tox. 1; H330 Acute Tox. 1; H330 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1),1
		Acute toxicity esti- mate	
		Acute oral toxicity: 124 mg/kg Acute inhalation tox- icity (dust/mist): 0,046 mg/l	

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 advice 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.

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Protection of first-aiders	: First Aid res	conders should pay attention to self-protection		
		recommended protective clothing		
If inhaled		h air. t warm and at rest. s irregular or stopped, administer artificial respira		
	tion. Call a physic	sian immediately.		
In case of skin contact	removing all	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	for at least 1			
		de open while rinsing. , remove contact lens, if worn. ysician.		
If swallowed	: Rinse mouth Do NOT indu	with water. uce vomiting.		
		cian immediately.		
2 Most important symptoms a	nd effects, both a	acute and delayed		
Risks	: Causes skin Causes serio	irritation. Dus eye irritation.		
	May cause r	espiratory irritation.		
		Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.		
.3 Indication of any immediate	medical attention	n and special treatment needed		
Treatment	: Treat sympton Keep under	omatically. medical supervision for at least 48 hours.		
ECTION 5: Firefighting mea	sures			
.1 Extinguishing media				
Suitable extinguishing media	: Carbon diox	ide (CO2)		
	Dry powder Water spray	iet		
	Alcohol-resis			
Unsuitable extinguishing media	: High volume	High volume water jet		
.2 Special hazards arising from	the substance of	or mixture		
Specific hazards during fire		langerous/toxic fumes possible in cases of		

Specific hazards during fire : Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

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	Hazard ucts	ous combustion prod-	:	bustion	nposition products due to incomplete com- e, carbon dioxide and unburned hydrocar-
5.3	Advice	for firefighters			
		protective equipment fighters	:		e, wear self-contained breathing apparatus. tective equipment.
	Further	information	:	Collect contamina must not be disch Fire residues and	o cool unopened containers. ated 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. Sweep up to prevent slipping hazard. In the case of vapor formation use a respirator with an approved 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

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

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		Wear persona	l protective equipment.		
	Advice on protection against fire and explosion	open flames, l smoke. Take i	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 inc	ompatibilities		
	Requirements for storage areas and containers		al container. Keep containers tightly closed in a well-ventilated place.		
	Further information on stor- age conditions	moisture. Kee	om heat and sources of ignition. Protect from p away from direct sunlight. Do not store at above 30 °C / 86 °F.		
	Advice on common storage	•	with oxidizing agents. om food and drink.		
	Storage class (TRGS 510)	: 3			
7.3	Specific end use(s)				
	Specific use(s)	: No data availa	ble		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
styrene	100-42-5	AGW	20 ppm 86 mg/m3	DE TRGS 900
	Peak-limit category: 2;(II)			
			s compliance with the OEL ar of harming the unborn child	nd biological
		MAK	20 ppm 86 mg/m3	DE DFG MAK
	that are consi can be derive	rther information: Substances that cause cancer in humans or animals at are considered to be carcinogenic for humans and for which a MAK we have be derived, Damage to the embryo or foetus is unlikely when the MA ue or the BAT value is observed		

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-	TRGS 903

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ing hours mandelic acid plus end of shift, for phenylglyoxylic long-term expo- acid: 600 mg/g sures after several creatinine previous shifts, (Urine) Immediately after	DFG T

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

Substance name	End Use	Routes of expo-	Potential health ef- fects	Value
		sure		
styrene	Workers	Dermal	Long-term systemic	406 mg/kg
			effects, Chronic ef-	bw/day
			fects	
	Workers	Inhalation	Long-term systemic	85 mg/m3
			effects, Chronic ef-	Ŭ
			fects	
	Workers	Inhalation	Acute systemic ef-	289 mg/m3
		innalation	fects, Chronic effects	200 mg/mo
	Workers	Inhalation	Acute local effects,	306 mg/m3
			Short-term exposure	U U
	Consumers	Oral	Long-term systemic	2,1 mg/kg
			effects, Chronic ef-	bw/day
			fects	
	Consumers	Dermal	Long-term systemic	343 mg/kg
			effects, Chronic ef-	bw/day
			fects	
	Consumers	Inhalation	Long-term systemic	10,2 mg/m3
			effects, Chronic ef-	
			fects	
	Consumers	Inhalation	Acute systemic ef-	174,25 mg/m3
			fects, Short-term	, ,
			exposure	
	Consumers	Inhalation	Acute local effects,	182,75 mg/m3
			Short-term exposure	

exposition or after working hours

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

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

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N E C E	nd protection Material Break through time Glove thickness Directive Protective index		Fluorinated rubbe > 480 min >= 0,4 mm DIN EN 374 Class 6	r
F	Remarks	:	cation of degrada about break throu values! The exact to be obtained fro choice of an appr material but also from one produce	discarded and replaced if there is any indi- tion or chemical breakthrough. The data ogh time/strength of material are standard to break through time/strength of material has om the producer of the protective glove. The opriate glove does not only depend on its on other quality features and is different er to the other. Preventive skin protection not suitable. Nitrile gloves are not suitable. ber gloves.
Skir	and body protection	:	Please wear suita or heat-resistant s Long sleeved clot	
Res	piratory protection	:	exposure limits. Use the indicated	respiratory protection if the occupational exceeded and/or in case of product release
F	Filter type	:	Combined particu	lates and organic vapor type (A-P)
Prot	tective measures	:	located close to the	n the skin and the eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Color	: amber
Odor	: characteristic
Melting point/range	: -31 °C Literary value styrene

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Boiling point/boiling range	: 145 °C 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
Flash point	: 31 °C Literary value styrene
Autoignition temperature	: 490 °C Literary value styrene
рН	: No data available substance/mixture is non-soluble (in water)
Viscosity Viscosity, dynamic	: 750 mPa.s (23 °C)
Viscosity, kinematic	: 750 mm2/s (23 °C)
Solubility(ies) Water solubility	: insoluble
Partition coefficient: n- octanol/water	: log Pow: 2,96 (25 °C) Literary value styrene
Vapor pressure	: 6 hPa (20 °C)
Density	: No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

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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 ther- mal decomposition and/or rupture containers.				
10.4 Conditions to avoid					
Conditions to avoid :	Heat, flames and sparks. Strong sunlight for prolonged periods.				
10.5 Incompatible materials					
Materials to avoid :	Strong acids and oxidizing agents polymerization initiators Copper Copper alloys Brass				

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 due to lack of data.

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

1,4-naphthoquinone:

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Acute oral toxicity	: LD50 Oral (Rat): 124 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 0,0 Exposure time: Test atmospher Method: OECD	4 h
Acute dermal toxicity	toxicity	he substance or mixture has no acute dermal ts of skin contacts may include:
Skin corrosion/irritation Causes skin irritation.		
Components:		
styrene:		
Species Result	: Rabbit : irritating	
1,4-naphthoquinone: Result	: Causes burns.	
Serious eye damage/eye irr Causes serious eye irritation.	itation	
Components:		
styrene:		
Species Result	: Rabbit : irritating	
1,4-naphthoquinone:		
Result	: Risk of serious	damage to eyes.
Respiratory or skin sensitiz	ation	
Skin sensitization Not classified due to lack of d	ata.	
Respiratory sensitization Not classified due to lack of d	ata.	
Components:		
styrene: Species Result	: Guinea pig : Does not cause	e skin sensitization.

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1,4-naphthoquinone: Result	:	May cause ser	nsitization by skin contact.
Germ cell mutagenicity Not classified due to lack of	data.		
Carcinogenicity Not classified due to lack of	data.		
Reproductive toxicity Suspected of damaging the	unbo	rn child.	
Components:			
styrene: Reproductive toxicity - As- sessment	:		lamaging the unborn child., Some evidence of s on development, based on animal experi-
STOT-single exposure May cause respiratory irritat	ion.		
Components:			
styrene: Assessment	:	May cause res	piratory irritation.
1,4-naphthoquinone: Assessment	:	May cause res	piratory irritation.
STOT-repeated exposure			
	hearii	ng organs) throu	igh prolonged or repeated exposure if inhaled.
Components:			
styrene: Routes of exposure Target Organs Assessment	:	Inhalation hearing organs Causes damag exposure.	s ge to organs through prolonged or repeated
Aspiration toxicity Not classified due to lack of	data		
Components:	uald.		
<u>componenta.</u>			

styrene:

May be fatal if swallowed and enters airways.

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11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

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

SECTION 12: Ecological information

12.1 Toxicity

Components:

styrene:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 4,02 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 4,7 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 4,9 mg/l Exposure time: 72 h
		EC10 (Selenastrum capricornutum (green algae)): 0,28 mg/l Exposure time: 96 h
Toxicity to microorganisms	:	EC50 (Natural microorganism): ca. 500 mg/l Method: OECD Test Guideline 209
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 1,01 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
Ecotoxicology Assessment Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
1,4-naphthoquinone:		
Toxicity to fish	:	(Oryzias latipes (Japanese medaka)): 0,045 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,0261 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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Toxicity plants	to algae/aquatic	:	EC50 (Pseudokir Exposure time: 72	chneriella subcapitata (algae)): 0,42 mg/l 2 h
M-Facto icity)	or (Acute aquatic tox-	:	10	
M-Facto toxicity)	or (Chronic aquatic	:	1	
	icology Assessment quatic toxicity		Very toxic to aqua	atic life.
Chronic	aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
12.2 Persist	ence and degradabil	lity		
<u>Compo</u>	nents:			
styrene	:			
Biodegr	adability	:	Result: Readily bi Biodegradation: Exposure time: 28	70,9 %
-	hthoquinone: adability	:	Result: Not rapidl Biodegradation: Exposure time: 28 Method: OECD T	0 % 3 d
12.3 Bioacc	umulative potential			
<u>Compo</u>	nents:			
styrene	:			
Partition octanol/	n coefficient: n- /water	:	log Pow: 2,96 (25	°C)
-	hthoquinone: n coefficient: n- /water	:	log Pow: 1,77 (25	°C)
12.4 Mobilit				
	available		cmont	
	s of PBT and vPvB as	556	soment	
<u>Produc</u>			This substance !	iviture containe no componente considera d
Assessi	nent	:		ixture contains no components considered stent, bioaccumulative and toxic (PBT), or

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		very persist 0.1% or hig	ent and very bioaccumulative (vPvB) at levels of her.	
12.6 Endo	ocrine disrupting prop	perties		
Prod	uct:			
Asse	ssment	ered to hav REACH Art (EU) 2017/2	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	
12.7 Othe	r adverse effects			
Prod	uct:			
Addit matio	ional ecological infor- on	: No data ava	ailable	
SECTION	N 13: Disposal cons	iderations		
13.1 Wast	te treatment methods			
Produ	uct	Do not emp tainer at ha Dispose of Dispose of	ose of with domestic refuse. Ity into drains, dispose of this material and its con- zardous or special waste collection point. in accordance with local regulations. wastes in an approved waste disposal facility. censed waste management company.	
Conta	aminated packaging	dling site fo Store conta	ainers should be taken to an approved waste han- r recycling or disposal. iners and offer for recycling of material when in with the local regulations.	

accordance mar are regulatorier
Packaging that is not properly emptied must be disposed of as
the unused product.
Dispose of in accordance with local regulations.

	I	0
Waste Code	: The following Waste Co 07 02 08, other still bott	odes are only suggestions: toms 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

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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	1
	Class Subsidiary risks
ADN	: 3
ADR	: 3
RID	: 3
IMDG	: 3
ΙΑΤΑ	: 3
14.4 Packing group	
ADN Packing group Classification Code Hazard Identification Numbe Labels	: III : F1 r : 30 : 3
ADR Packing group Classification Code Hazard Identification Numbe Labels Tunnel restriction code	: III : F1
RID Packing group Classification Code Hazard Identification Numbe Labels	: III : F1 r : 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

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	IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	: 355 : Y344 : III : Flammable Liquid:	S
14.	5 Environmental hazards		
	ADN Environmentally hazardous	: no	
	ADR Environmentally hazardous	: no	
	RID Environmentally 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

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

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Seveso III: Directive 2012/18/EU of the Euro-P5c FLAMMABLE LIQUIDS pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Water hazard class (Germa- : WGK 2 obviously hazardous to water Classification according to AwSV, Annex 1 (5.2)

Other regulations:

ny)

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 H301	:	Flammable liquid and vapor. Toxic 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.
H330	:	Fatal if inhaled.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H361d	:	Suspected of damaging the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.
Full text of other abbreviatio	ns	
Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	
Asp. Tox.	:	Aspiration hazard

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

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Eye Dam. Eye Irrit. Flam. Liq. Repr. Skin Corr. Skin Irrit. Skin Sens. STOT RE STOT RE STOT SE DE DFG BAT DE DFG MAK DE TRGS 900 TRGS 903 DE DFG MAK / MAK DE TRGS 900 / AGW	: Specific target org : Germany. MAK B : Germany. MAK B	s city gan toxicity - repeated exposure gan toxicity - single exposure AT Annex XIII AT Annex IIa 900 - Occupational exposure limit values.

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:
Flam. Liq. 3	H226	Based on product data or assessment

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

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Ski	n Irrit. 2	H315	Calculation method	
Eye	e Irrit. 2	H319	Calculation method	
Re	or. 2	H361d	Calculation method	
ST	OT SE 3	H335	Calculation method	
ST	OT RE 1	H372	Calculation method	
Aqu	uatic 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.

DE / EN

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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	:	124.631
1.2	Relevant identified uses of the Use of the Sub-	es :	ubstance or mixture and uses advised against Curing chemical
	stance/Mixture		
	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

1.4 Emergency telephone

Telephone

: Tox Info Suisse (STIZ), Tel: 145

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 12 Organic peroxides, Type E	72/2008) 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: 25.03.2024	Date of last issue: 27.02.2024 Date 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)						
		Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed						
		MAK (inhalable fraction)	4 mg/m3	DE DFG MAK				
	Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed							
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 cat	/						
	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				
			sorption through the skin, Da the MAK value or the BAT va					

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

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		limit they must	are facing concentrations above the exposure use appropriate certified respirators. lequate ventilation wear respiratory protection.
Filter type Protective measures		: Combined par	ticulates and organic vapor type (A-P)
		Ensure that ey located close t Avoid contact	o not eat, drink or smoke. /e 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	:	• •
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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Conditions 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 da	ata.				
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

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		levels of 0.1%	ő or higher.		
12.7 Othe	r adverse effects				
Product: Additional ecological infor- mation		: No data avail	: No data available		
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 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

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 m	nixture:	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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