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

# Carsystem MULTI extralang

Version		Revision Date:	Date of last issue: 09.11.2023
3.1	DE / EN	16.07.2024	Date of first issue: 14.06.2022

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

1.1	Product identifier			
	Trade name	:	Carsystem MULTI extralang	
	Product code	:	145.419	
	This substance/ mixture conta	ins	nanoforms	
1.2	Relevant identified uses of th	ne s	ubstance 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	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	: 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

# Carsystem MULTI extralang

Version		Revision Date:	Date of last issue: 09.11.2023
3.1	DE / EN	16.07.2024	Date of first issue: 14.06.2022

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)					
Flammable liquids, Category 3	H226: Flammable liquid and vapor.				
Skin irritation, Category 2	H315: Causes skin irritation.				
Eye irritation, Category 2	H319: Causes serious eye irritation.				
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.				
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.				
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through pro- longed or repeated exposure.				

#### 2.2 Label elements

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

1

Hazard pictograms



Signal Word	:	Danger	
Hazard Statements	:	H226 H315 H317 H319 H361d H372	Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.
Precautionary Statements	:	Prevention	1:
		P201	Obtain special instructions before use.
		P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P260	Do not breathe dust / mist / vapours.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response	:
			51 + P338 IF IN EYES: Rinse cautiously with wa- ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		0000 000	12 IF expected or expected: Cet medical eduice/

P308 + P313 IF exposed or concerned: Get medical advice/

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

## Carsystem MULTI extralang

Version 3.1	DE / EN	Revision Date: 16.07.2024	Date of last issue: 09.11.2023 Date of first issue: 14.06.2022
		;	attention.
		Storage:	
			Store locked up.
		Disposal:	
			Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

#### Hazardous ingredients which must be listed on the label:

styrene maleic anhydride

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature	:	Mixture
		contains
		Resin

#### Components

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

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

# Carsystem MULTI extralang

ersion 1	DE / EN	Revision Date: 16.07.2024	Date of last issue: 09.11.2023 Date of first issue: 14.06.2022	
maleid	c anhydride	108-31-6 203-571-6 607-096-00-9 01-2119472428	Acute toxicity esti- mate Acute inhalation tox- icity (vapor): 11,8 mg/l 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 specific concentration limit Skin Sens. 1A; H317 >= 0,001 % Acute toxicity esti- mate Acute oral toxicity: 1.090 mg/kg	>= 0,001 - < 0,1
Substa Talc	ances with a workplace	e exposure limit : 14807-96-6 238-877-9		>= 30 - < 50

For explanation of abbreviations see section 16.

This substance/ mixture contains nanoforms

#### **Components:**

## iron hydroxide oxide yellow:

Particle characteristics

Particle Size Distribution	:	D10 = 40 $\mu$ m ± 10 $\mu$ m D50 = 75 $\mu$ m ± 25 $\mu$ m D90 = 160 $\mu$ m ± 40 $\mu$ m Type of distribution: number distribution
Assessment	:	This substance/ mixture contains nanoforms based on: Measurement data
Shape	:	Shape: rods Aspect Ratio (:1): 4 - 6

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

# Carsystem MULTI extralang

Version	DE / EN	Revision Date:	Date of last issue: 09.11.2023
3.1		16.07.2024	Date of first issue: 14.06.2022
Surface treatment /Coatings		: Surface treatme	ent /Coatings: no

## **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. Move out of dangerous area. Take off contaminated clothing and shoes immediately. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Show this material safety data sheet to the doctor in attend- ance.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing
If inhaled	:	Move to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respira- tion. Call a physician immediately.
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	:	Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.
4.2 Most important symptoms and	d e	ffects, both acute and delayed
Risks	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.
4.3 Indication of any immediate m	ned	ical attention and special treatment needed

Treatment		Treat symptomatically.
		Keep under medical supervision for at least 48 hours.

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

## **Carsystem MULTI extralang**

Version		Revision Date:	Date of last issue: 09.11.2023
3.1	DE / EN	16.07.2024	Date of first issue: 14.06.2022

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media Suitable extinguishing media : Carbon dioxide (CO2) Dry powder Water spray jet Alcohol-resistant foam Unsuitable extinguishing : High volume water jet media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire Build-up of dangerous/toxic fumes possible in cases of : fire/high temperature. fighting Hazardous combustion prod- : Hazardous decomposition products due to incomplete comucts bustion Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). 5.3 Advice for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for fire-fighters Use personal protective equipment. Further information Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	<ul> <li>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.</li> </ul>
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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.

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

## Carsystem MULTI extralang

Version		Revision Date:	Date of last issue: 09.11.2023
3.1	DE / EN	16.07.2024	Date of first issue: 14.06.2022

#### 6.3 Methods and material for containment and cleaning up

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

#### 6.4 Reference to other sections

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

#### **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

	•	
Advice on safe handling	:	Keep container closed when not in use. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.
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. Protect from moisture. Keep away from direct sunlight. Do not store at temperatures above 30 °C / 86 °F.
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

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

# Carsystem MULTI extralang

sion DE / EN			ate of last issue: 09.11.202 ate of first issue: 14.06.202			
Talc	14807-96-6	AGW (Inhalable fraction)	10 mg/m3	DE TRGS 900		
	Peak-limit ca					
	Further inform	nation: When there is	s compliance with the OEL of harming the unborn child			
		AGW (Alveolate fraction)	1,25 mg/m3	DE TRGS 900		
	Peak-limit ca	,				
	Further inform	nation: When there is	s compliance with the OEL of harming the unborn child			
		TWA (Respirable dust)	0,1 mg/m3	2004/37/EC		
	Eurther inform	nation: Carcinogens	or mutagens			
		BM (Alveolar dust fraction)	0,5 mg/m3	DE TRGS 527		
styrene	100-42-5	AGW	20 ppm 86 mg/m3	DE TRGS 900		
	Peak-limit ca	tegory: 2:(II)				
			s compliance with the OEL	and biological		
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					
		MAK	20 ppm 86 mg/m3	DE DFG MA		
	Further information: Substances that cause cancer in humans or animals or					
			genic for humans and for w			
	can be derive		nbryo or foetus is unlikely v			
Barium sulphate	7727-43-7	AGW (Inhalable fraction)	10 mg/m3	DE TRGS 900		
	Peak-limit ca	tegory: 2;(II)	•			
			s compliance with the OEL	and biological		
			of harming the unborn child			
		AGW (Alveolate fraction)	1,25 mg/m3	DE TRGS 900		
	Peak-limit ca	tegory: 2;(II)				
			s compliance with the OEL of harming the unborn child			
		MAK (measured as the alveolate	0,3 mg/m3	DE DFG MA		
	Eurthor inform	fraction)	hat cause cancer in human			
	Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed.					
		BAT value is observe	bd			
		BAT value is observe MAK (inhalable fraction)	ed 4 mg/m3	DE DFG MA		
	Further inform that are cons can be derive	MAK (inhalable fraction) nation: Substances t idered to be carcinog	4 mg/m3 hat cause cancer in human genic for humans and for w mbryo or foetus is unlikely	is or animals or hich a MAK valu		

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

# Carsystem MULTI extralang

Version 3.1	DE / EN			ate of last issue: 09.11.2023 ate of first issue: 14.06.2022		
		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 fraction)	1,25 mg/m3 (Titanium dioxide)	DE TRGS 900	
			nation: When there	is compliance with the OEL a of harming the unborn child	nd biological	
			BM (Alveolar dust fraction)	0,5 mg/m3	DE TRGS 527	
			MAK (measured as the alveolate fraction)	0,3 mg/m3	DE DFG MAK	
			or animals or ich a MAK value hen the MAK			
malei	ic anhydride	108-31-6	AGW (Vapour and aerosols)	0,02 ppm 0,081 mg/m3	DE TRGS 900	
		Further inform tablished, tha in combination OEL and biolo	t never can be exce n with an exceeding ogical tolerance val nce sensitizing thro	I cases also a momentary val eded. This substance will be g value., When there is compl ues, there is no risk of harmir ugh the skin and respiratory s	indicated by = = iance with the og the unborn system	
			Mow	0,05 ppm 0,2 mg/m3	DE DFG MAK	
		Further information: Danger of sensitization of the airways and the skin age to the embryo or foetus is unlikely when the MAK value or the BAT is observed				
			MAK	0,02 ppm 0,081 mg/m3	DE DFG MAK	
	Further information: Danger of sensitization of the airways and the skin, age to the embryo or foetus is unlikely when the MAK value or the BAT 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- ing hours	TRGS 903
		mandelic acid plus phenylglyoxylic acid: 600 mg/g creatinine (Urine)	end of shift, for long-term expo- sures after several previous shifts, Immediately after exposition or after working hours	DE DFG BAT

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

# Carsystem MULTI extralang

Version		Revision Date:	Date of last issue: 09.11.2023
3.1	DE / EN	16.07.2024	Date of first issue: 14.06.2022

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

Substance name	End Use	Routes of expo- sure	Potential health ef- fects	Value
styrene	Workers	Dermal	Long-term systemic effects, Chronic ef- fects	406 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects, Chronic ef- fects	85 mg/m3
	Workers	Inhalation	Acute systemic ef- fects, Chronic effects	289 mg/m3
	Workers	Inhalation	Acute local effects, Short-term exposure	306 mg/m3
	Consumers	Oral	Long-term systemic effects, Chronic ef- fects	2,1 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects, Chronic ef- fects	343 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Chronic ef- fects	10,2 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects, Short-term exposure	174,25 mg/m3
	Consumers	Inhalation	Acute local effects, Short-term exposure	182,75 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
styrene	Fresh water	0,028 mg/l
	Sea water	0,014 mg/l
	Fresh water sediment	0,614 mg/kg dry weight (d.w.)
	Sea sediment	0,307 mg/kg dry weight (d.w.)
	Soil	0,2 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	5 mg/l
maleic anhydride	Fresh water	0,038 mg/l
	Sea water	0,004 mg/l
	Fresh water sediment	0,296 mg/kg dry weight (d.w.)
	Sea sediment	0,03 mg/kg dry weight (d.w.)
	Soil	0,037 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	44,6 mg/l

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

# Carsystem MULTI extralang

Version		Revision Date:	Date of last issue: 09.11.2023
3.1	DE / EN	16.07.2024	Date of first issue: 14.06.2022

#### 8.2 Exposure controls

Personal protective equipment Eye/face protection	
Hand protection Material : Break through time : Glove thickness : Directive : Protective index :	Fluorinated rubber > 480 min >= 0,4 mm DIN EN 374 Class 6
Remarks :	Gloves should be discarded and replaced if there is any indi- cation of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Preventive skin protection Butyl gloves are not suitable. Nitrile gloves are not suitable. Avoid natural rubber gloves.
Skin and body protection :	Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres. Long sleeved clothing
Respiratory protection :	Apply technical measures to comply with the occupational exposure limits. If exposure cannot be avoided by the provision of local ex- haust ventilation, suitable respiratory protective equipment should be used. Dry sanding, flame cutting and/or welding of the cured materi- al will give rise to dust and/or hazardous fumes. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
Filter type :	Combined particulates and organic vapor type (A-P)
Protective measures :	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 : paste

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

# Carsystem MULTI extralang

Version 3.1 DE / EN	Revision Date:Date of last issue: 09.11.202316.07.2024Date of first issue: 14.06.2022
Color	: beige
Odor	: characteristic
Melting point/range	: -30 °C Literary value styrene
Boiling point/boiling range	: 145 °C (1.013 hPa) Literary value styrene
Upper explosion limit / Upper flammability limit	: 6,1 %(V) Literary value styrene
Lower explosion limit / Lower flammability limit	: 1,1 %(V) Literary value styrene
Flash point	: 31 °C(1.013 hPa) Literary value styrene
Autoignition temperature	: 490 °C (1.013 hPa) Literary value styrene
Decomposition temperature	: No data available
рН	: Not applicable substance/mixture is non-soluble (in water)
Viscosity Viscosity, dynamic	: not determined
Viscosity, kinematic	: not determined
Solubility(ies) Water solubility	: 0,32 g/l (25 °C) Literary value styrene
Partition coefficient: n- octanol/water	: log Pow: 2,96 (25 °C) Literary value styrene
Vapor pressure	: 6,67 hPa (20 °C) Literary value styrene
Density	: ca. 1,8 g/cm3 (20 °C)

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

## **Carsystem MULTI extralang**

Ver 3.1	rsion DE / EN		Date of last issue: 09.11.2023 Date of first issue: 14.06.2022			
	Relative vapor density	: No data available				
	Particle characteristics Assessment	: This substance/ m	: This substance/ mixture contains nanoforms			
	Particle size	: Further particle pr	roperties for nanomaterials see section 3			
9.2	Other information					
	Explosives	: Not explosive In use, may form t	flammable/explosive vapour-air mixture.			
	Flammability (liquids)	: Flammable				
	Self-ignition	: not auto-flammab	le			

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if used as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions :	Avoid radical-forming starting agents, peroxides and reactive metals. Polymerization can occur.Polymerization is a highly exother- mic reaction and may generate sufficient heat to cause 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

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

## Carsystem MULTI extralang

Version		Revision Date:	Date of last issue: 09.11.2023
3.1	DE / EN	16.07.2024	Date of first issue: 14.06.2022

#### **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 a	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
maleic anhydride:		
Acute oral toxicity	:	LD50 Oral (Rat): 1.090 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 4,35 mg/l Exposure time: 1 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 2.620 mg/kg
Talc:		
Acute oral toxicity	:	LD50 Oral (Rat): 5.000 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 Dermal (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402

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

# Carsystem MULTI extralang

rsion	DE / EN		sion Date: 7.2024	Date of last issue: 09.11.2023 Date of first issue: 14.06.2022
Skin c	orrosion/irritation			
Cause	s skin irritation.			
<u>Comp</u>	onents:			
styren	e:			
Specie Result			Rabbit rritating	
	ıs eye damage/eye irri	itatio	ı	
	s serious eye irritation.			
<u>Comp</u>	onents:			
styren		-		
Specie Result			Rabbit rritating	
Respi	ratory or skin sensitiz	ation		
	ensitization ause an allergic skin rea	action		
Respi	ratory sensitization assified due to lack of da			
<u>Comp</u>	onents:			
styren	e:			
Specie Result			Guinea pig Does not cause sł	kin sensitization.
maleid	anhydride:			
Result		: 7	The product is a s	kin sensitizer, sub-category 1A.
	<b>cell mutagenicity</b> assified due to lack of da	ata.		
	<b>nogenicity</b> assified due to lack of da	ata.		
-	<b>ductive toxicity</b> cted of damaging the u	nborn	child.	
Comp	onents:			
styren	e:			
Reproo sessm	ductive toxicity - As- ent	6		aging the unborn child., Some evidence of a development, based on animal experi-

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

## **Carsystem MULTI extralang**

rsion	DE / EN		vision Date: .07.2024	Date of last issue: 09.11.2023 Date of first issue: 14.06.2022
STOT	-single exposure			
Not cla	assified due to lack of	f data.		
Comp	oonents:			
styrer	ne:			
Asses	sment	:	May cause respi	ratory irritation.
STOT	-repeated exposure			
	es damage to organs		h prolonged or rei	peated exposure.
	oonents:			
styrer	ne:			
Route	s of exposure	:	Inhalation	
	t Organs	:	hearing organs	
Asses	sment	:	Causes damage exposure.	to organs through prolonged or repeated
			·	
malei	c anhydride:			
	s of exposure	:	Inhalation	
•	t Organs	:	Respiratory syste	
Asses	sment	:	exposure.	to organs through prolonged or repeated
Aspir	ation toxicity			
Not cl	assified due to lack of	f data.		
_				

## Components:

**styrene:** May be fatal if swallowed and enters airways.

#### 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.

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

# Carsystem MULTI extralang

Version		Revision Date:	Date of last issue: 09.11.2023
3.1	DE / EN	16.07.2024	Date of first issue: 14.06.2022

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Components:		
<b>styrene:</b> 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.
maleic anhydride:		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 75 mg/l Exposure time: 96 h Method: EPA-660/3-75-00
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 37,9 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 65,78 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

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

# Carsystem MULTI extralang

Version 3.1 DE / EN	Revision Date: 16.07.2024	Date of last issue: 09.11.2023 Date of first issue: 14.06.2022	
Ecotoxicology Assessment	t		
Chronic aquatic toxicity		has no known ecotoxicological effects.	
12.2 Persistence and degradabi	ility		
Components:			
styrene:			
Biodegradability	: Result: Read Biodegradati Exposure tim		
maleic anhydride:			
Biodegradability	Biodegradati Exposure tim	Result: Readily biodegradable. Biodegradation: > 90 % Exposure time: 225 d Method: OECD Test Guideline 301B	
12.3 Bioaccumulative potential			
Components:			
styrene:			
Partition coefficient: n- octanol/water	: log Pow: 2,96	: log Pow: 2,96 (25 °C)	
maleic anhydride:			
Partition coefficient: n- octanol/water	: log Pow: -2,6	51 (20 °C)	
Talc:			
Partition coefficient: n- octanol/water	: log Pow: -9,4 pH: 7	(25 °C)	
12.4 Mobility in soil			
No data available			
12.5 Results of PBT and vPvB a	issessment		
Product:			
Assessment	to be either p very persiste	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	
12.6 Endocrine disrupting prop	erties		
Product:			
Assessment	: The substand	ce/mixture does not contain components consid-	

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

# Carsystem MULTI extralang

Versior 3.1	DE / EN		evision Date: 6.07.2024	Date of last issue: 09.11.2023 Date of first issue: 14.06.2022
			REACH Article 5	locrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
12.7 Ot	her adverse effects			
Ad	oduct: Iditional ecological infor- ation	:	No data available	9

## **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 con- tainer 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	:	<b>RESIN SOLUTION</b>
ADR	:	<b>RESIN SOLUTION</b>
RID	:	<b>RESIN SOLUTION</b>

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

# Carsystem MULTI extralang

Version 3.1 DE / EN	Revision Date: 16.07.2024	Date of last issue: 09.11.2023 Date of first issue: 14.06.2022
IMDG IATA	: RESIN SOLUTIO	DN
14.3 Transport hazard class(es)		
	Class	Subsidiary risks
ADN	: 3	
ADR	: 3	
RID	: 3	
IMDG	: 3	
ΙΑΤΑ	: 3	
14.4 Packing group		
<b>ADN</b> 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)	
<b>RID</b> Packing group Classification Code Hazard Identification Number Labels	: III : F1 : 30 : 3	
<b>IMDG</b> Packing group Labels EmS Code	: III : 3 : F-E, <u>S-E</u>	
IATA (Cargo) Packing instruction (cargo aircraft)	: 366	
Packing instruction (LQ) Packing group Labels	: Y344 : III : Flammable Liqui	ds
IATA (Passenger) Packing instruction (passen- ger aircraft)	: 355	
Packing instruction (LQ) Packing group Labels	: Y344 : III : Flammable Liqui	ds

## 14.5 Environmental hazards

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

## Carsystem MULTI extralang

Version 3.1	DE / EN	Revision Date: 16.07.2024	Date of last issue: 09.11.2023 Date of first issue: 14.06.2022
<b>ADN</b> Enviro	onmentally hazardous	: no	
ADR Environmentally hazardous		: no	
<b>RID</b> Environmentally hazardous		: no	
IMDG Marine	e 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
Seveso III: Directive 2012/18/EU of the Euro-P5c 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 haza ny) Classification accordin	ardous to water ng to AwSV, Annex 1 (5.2)

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

:

## Carsystem MULTI extralang

Version		Revision Date:	Date of last issue: 09.11.2023
3.1	DE / EN	16.07.2024	Date of first issue: 14.06.2022

Volatile organic compounds

Directive 2004/42/EC

Volatile organic compounds (VOC) content: < 250 g/l VOC content for the product in a ready to use condition.

#### Other regulations:

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

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 15.2 Chemical Safety Assessment

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

#### **SECTION 16: Other information**

#### Full text of H-Statements

Repr.

H226 : H302 : H304 : H314 : H315 : H317 : H318 : H319 : H332 : H334 : H335 : H361d : H372 : H372 : H412 : EUH071 :	<ul> <li>Flammable liquid and vapor.</li> <li>Harmful if swallowed.</li> <li>May be fatal if swallowed and enters airways.</li> <li>Causes severe skin burns and eye damage.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Causes serious eye damage.</li> <li>Causes serious eye irritation.</li> <li>Harmful if inhaled.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause respiratory irritation.</li> <li>Suspected of damaging the unborn child.</li> <li>Causes damage to organs through prolonged or repeated exposure if inhaled.</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> <li>Harmful to aquatic life with long lasting effects.</li> <li>Corrosive to the respiratory tract.</li> </ul>
Full text of other abbreviations	5
Acute Tox.:Aquatic Chronic:Asp. Tox.:Eye Dam.:Eye Irrit.:Flam. Liq.:	Acute toxicity Long-term (chronic) aquatic hazard Aspiration hazard Serious eye damage Eye irritation Flammable liquids

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

## Carsystem MULTI extralang

Version 3.1 DE / EN	Revision Date: 16.07.2024	Date of last issue: 09.11.2023 Date of first issue: 14.06.2022		
Resp. Sens. Skin Corr. Skin Irrit. Skin Sens.	<ul> <li>Respiratory sensi</li> <li>Skin corrosion</li> <li>Skin irritation</li> <li>Skin sensitization</li> </ul>			
STOT RE STOT SE 2004/37/EC	: Specific target or : Europe. Directive	Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work		
DE DFG BAT DE DFG MAK DE TRGS 527 DE TRGS 900 TRGS 903 2004/37/EC / TWA DE DFG MAK / Mow DE DFG MAK / MAK DE TRGS 527 / BM DE TRGS 900 / AGW	<ul> <li>Germany. MAK B</li> <li>Germany. TRGS</li> <li>Germany. TRGS</li> <li>c - Biological limit</li> <li>Long term expose</li> <li>Momentary value</li> <li>MAK value</li> <li>Assessment scale</li> </ul>			

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

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

## **Carsystem MULTI extralang**

Versio 3.1	on DE / EN	Revision Date: 16.07.2024	Date of last issue: 09.11.2023 Date of first issue: 14.06.2022
F	Further information		
C	Classification of the m	nixture:	Classification procedure:
F	Flam. Liq. 3	H226	Based on product data or assessment
S	Skin Irrit. 2	H315	Calculation method
E	Eye Irrit. 2	H319	Calculation method
S	Skin Sens. 1	H317	Calculation method
F	Repr. 2	H361d	Calculation method
5	STOT RE 1	H372	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN

## **BPO-Härter rot**

Version		Revision Date:	Date of last issue: 27.02.2024
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	1.1 Product identifier				
	Trade name	:	BPO-Härter rot		
	Product code	:	143.197		
1.2	Relevant identified uses of th	ne s	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 the	e sa	ifety 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
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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

## **BPO-Härter rot**

Version		Revision Date:	Date of last issue: 27.02.2024
2.4	DE / EN	25.03.2024	Date of first issue: 11.07.2022

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 12 Organic peroxides, Type E	<b>72/2008)</b> 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

## **BPO-Härter rot**

Version 2.4	DE / EN	Revision Date: 25.03.2024	Date of last issue: 27.02.2024 Date of first issue: 11.07.2022
		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:	
		P403 + P235 Store in a well-ventilated place. Keep cool. P410 Protect 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

## **BPO-Härter rot**

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

<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>Move out of dangerous area.</li> <li>Take off contaminated clothing and shoes immediately.</li> <li>Show this material safety data sheet to the doctor in attendance.</li> <li>First aider needs to protect himself.</li> </ul>
: Move to fresh air. Get medical attention.
: Wash off immediately with soap and plenty of water. Call a physician if irritation persists.
<ul> <li>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.</li> <li>Keep eye wide open while rinsing.</li> <li>Remove contact lenses.</li> <li>Consult a physician.</li> </ul>
: 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

## **BPO-Härter rot**

Vers 2.4	sion	DE / EN		vision Date: .03.2024	Date of last issue: 27.02.2024 Date of first issue: 11.07.2022
				Dry powder Water spray jet Alcohol-resistant f	ōam
	Unsuita media	able extinguishing	:	High volume wate	r jet
5.2 \$	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.
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#### 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

## **BPO-Härter rot**

7.3

Version		Revision Date:	Date of last issue: 27.02.2024
2.4	DE / EN	25.03.2024	Date of first issue: 11.07.2022

## **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		<ul> <li>Disc only with adequate ventilation.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms.</li> <li>Wear personal protective equipment.</li> <li>Keep away from heat and sources of ignition.</li> <li>Handle and open container with care.</li> <li>Keep container tightly closed and dry.</li> <li>Never return unused material to storage receptacle.</li> <li>Risk of decomposition.</li> <li>Prevent contamination with readily oxidizable materials and polymerization accelerators.</li> <li>Avoid inhalation of vapor or mist.</li> <li>In case of insufficient ventilation, wear suitable respiratory equipment.</li> <li>Avoid release to the environment.</li> </ul>
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

contaitions for sale 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

## **BPO-Härter rot**

Version		Revision Date:	Date of last issue: 27.02.2024
2.4	DE / EN	25.03.2024	Date of first issue: 11.07.2022

## **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	· · · · · · · · · · · · · · · · · · ·		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		
	Further information: Damage to the embryo or foetus is unlikely when MAK value or the BAT value is observed					
ethanediol	107-21-1	STEL	40 ppm 104 mg/m3	2000/39/EC		
	Further inform skin, Indicativ	information: Identifies the possibility of significant uptake through dicative				
		TWA	20 ppm 52 mg/m3	2000/39/EC		
Further information: Identifies the possibility of significant uptal skin, Indicative				e through the		
		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 embryo or foetus is unlikely when the MAK value of 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

## **BPO-Härter rot**

Version 2.4			Date of last issue: 27.02.2024 Date of first issue: 11.07.2022		
		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

<b>Personal protective equipm</b> 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

## **BPO-Härter rot**

Version 2.4	DE / EN	Revision Date: 25.03.2024	Date of last issue: 27.02.2024 Date of first issue: 11.07.2022
		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	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

## **BPO-Härter rot**

Version 2.4 DE / EN	Revision Date: 25.03.2024	Date of last issue: 27.02.2024 Date of first issue: 11.07.2022
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

## **BPO-Härter rot**

Version 2.4	DE / EN	Revision Date: 25.03.2024	Date of last issue: 27.02.2024 Date of first issue: 11.07.2022
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 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

## **BPO-Härter rot**

Versi 2.4	on DE / EN	Revision Date: 25.03.2024	Date of last issue: 27.02.2024 Date of first issue: 11.07.2022
	Respiratory sensitization Not classified due to lack of	data.	
	Germ cell mutagenicity Not classified due to lack of	data.	
	<b>Carcinogenicity</b> 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:		
 -	<b>ethanediol:</b> 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

## **BPO-Härter rot**

Versio 2.4	on	DE / EN		vision Date: .03.2024	Date of last issue: 27.02.2024 Date of first issue: 11.07.2022
Т	oxicity	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
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
				NOEC (Daphnia n Exposure time: 48 Method: OECD Te	
	oxicity lants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	/I-Facto city)	or (Acute aquatic tox-	:	10	
a		to daphnia and other invertebrates (Chron- ty)	:	EC10: 0,001 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	/I-Facto oxicity)	or (Chronic aquatic	:	10	
e	thane	diol:			
Т	oxicity	to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 72.860 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	oxicity lants	to algae/aquatic	:	NOEC (algae): > 7 Exposure time: 72 Method: OECD Te	2 h
	oxicity city)	to fish (Chronic tox-	:	NOEC: 15.380 mg Exposure time: 7 g Species: Pimepha	

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

## **BPO-Härter rot**

Version 2.4	DE / EN	-	sion Date: 3.2024	Date of last issue: 27.02.2024 Date of first issue: 11.07.2022
	ity to daphnia and other tic invertebrates (Chron- icity)	E	NOEC: 8.590 mg/ Exposure time: 7 c Species: Ceriodap	
12.2 Pers	istence and degradabi	lity		
Com	ponents:			
diber	nzoyl peroxide:			
Biode	egradability	E	Result: Readily bio Biodegradation: 7 Exposure time: 28 Method: OECD Te	′1 %
ethar	nediol:			
Biode	egradability	E	Result: Readily bio Biodegradation: 9 Exposure time: 10 Aethod: OECD Te	0 - 100 %
12.3 Bioa	ccumulative potential			
Com	ponents:			
Partit	nzoyl peroxide: ion coefficient: n- iol/water	: 10	og Pow: 3,2 (20 °	C)
otha	nediol:			
Partit	ion coefficient: n- ol/water	: 10	og Pow: -1,36 (25	э°С)
	i <b>lity in soil</b> ata available			
12.5 Resu	Ilts of PBT and vPvB a	ssess	ment	
<u>Prod</u>	uct:			
Asse	ssment	te V	o be either persis	xture contains no components considered tent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
12.6 Endo	ocrine disrupting prope	erties		
Prod	uct:			
Asse	ssment	e F	ered to have endo REACH Article 57	xture does not contain components consid- crine disrupting properties according to (f) or Commission Delegated regulation r Commission Regulation (EU) 2018/605 at

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

## **BPO-Härter rot**

Version 2.4	DE / EN	Revision Date: 25.03.2024	Date of last issue: 27.02.2024 Date of first issue: 11.07.2022	
		levels of 0.1%	6 or higher.	
12.7 Other	adverse effects			
Product: Additional ecological infor- : No data available mation				
SECTION	13: Disposal cons	iderations		
13.1 Waste	e treatment methods			
Produ	ct	Do not dispos Do not empty tainer at haza	aste streams during collection. se of with domestic refuse. v into drains, dispose of this material and its con- ardous or special waste collection point. accordance with local regulations.	
Conta	minated packaging	the unused p	at is not properly emptied must be disposed of as roduct. accordance with local regulations.	
Waste	Code	16 05 06, lab hazardous sເ icals	Waste Codes are only suggestions: oratory chemicals, consisting of or containing ibstances, including mixtures of laboratory chem- roxides, for example hydrogen peroxide	

# SECTION 14: Transport information

## 14.1 UN number or ID number

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

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

## **BPO-Härter rot**

Version 2.4 DE / EN	Revision Date: 25.03.2024	Date of last issue: 27.02.2024 Date of first issue: 11.07.2022	
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	
<b>ADR</b> Packing group Classification Code Labels Tunnel restriction code	: Not assigned by : P1 : 5.2 : (D)	regulation	
<b>RID</b> Packing group Classification Code Hazard Identification Number Labels	: P1	539	
<b>IMDG</b> 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			
<b>ADN</b> Environmentally hazardous	: no		
ADR Environmentally hazardous	: no		

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

## **BPO-Härter rot**

Version		Revision Date:	Date of last issue: 27.02.2024
2.4	DE / EN	25.03.2024	Date of first issue: 11.07.2022

#### 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)	•	lowii Num If yo	ditions of restriction for the fol- ng entries should be considered: hber on list 75 u intend to use this product as to 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-P6b pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.		SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	
	E1 EI	NVIRO	NMENTAL HAZARDS
Water hazard class (Germa- : WGK 2 obvio ny) Classification			water V, Annex 1 (5.2)

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

## **BPO-Härter rot**

Version		Revision Date:	Date of last issue: 27.02.2024
2.4	DE / EN	25.03.2024	Date of first issue: 11.07.2022

#### 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 abbreviations			
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	

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

## **BPO-Härter rot**

Version		Revision Date:	Date of last issue: 27.02.2024
2.4	DE / EN	25.03.2024	Date of first issue: 11.07.2022

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.

DE / EN

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

## **BPO-Härter rot**

VersionRevision Date:Date of last issue: 27.02.20242.4DE / EN25.03.2024Date of first issue: 11.07.2022