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

1.1	Product identifier		
	Trade name	:	Carsystem Liquid Putty
	Product code	:	CS143496
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Body filler/stopper
	Recommended restrictions on use	:	Reserved for industrial and professional use.
1.3	Details of the supplier of the	sa	fety data sheet
	Company	:	Vosschemie GmbH Esinger Steinweg 50 25436 Uetersen Germany
			info@vosschemie.de
	Telephone Telefax	-	04122 717 0 04122 717158
	Responsible Department	:	Laboratory
			04122 717 0 sds@vosschemie.de
1.4	Emergency telephone		
	Telephone	:	Giftinformationszentrum (GIZ)-Nord, Göttingen, Deutschland

IMPORTED BY: Sydney Automotive Paints & Equipment PTY LTD Unit A3, 366 Edgar St. Condell Park NSW 2200 AUSTRALIA, Tel. +02 9772 9000 , +02 9772 9001 ·

0551 19240

Emergency telephone number: If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131 126, New Zealand 0800 764 766

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### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272 Flammable liquids, Category 3	<b>2/2008)</b> 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 exposure, 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.

#### 2.2 Label elements

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

Hazard pictograms



Signal Word

Danger

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- Hazard Statements
- H226 Flammable liquid and vapor.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H335 May cause respiratory irritation.
  H361d Suspected of damaging the unborn child.
  H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

#### Prevention:

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.
P271 Use only outdoors or in a well-ventilated area.

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

#### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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		P308 + P313 IF exposed or concerned: Get medical advice/ attention.
		<b>Storage:</b> P405 Store locked up.
		<b>Disposal:</b> 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 contains Resin

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 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	>= 20 - < 25

according to Regulation (EC) No. 1907/2006

## Carsystem Liquid Putty

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1,4-naphthoquinone	130-15-4 204-977-6 01-2120760462-5	Acute toxicity estimateAcute inhalation toxicity (vapor): 11,8 mg/lAcute Tox. 3; H301 Acute Tox. 1; H330Acute Tox. 1; H330Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic 	>= 0,025 - < 0,1
Talc	14807-96-6 238-877-9		>= 10 - < 20

For explanation of abbreviations see section 16.

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

### 4.1 Description of first-aid measures

Ta Do Sy	we out of dangerous area. ke off contaminated clothing and shoes immediately. not leave the victim unattended. mptoms of poisoning may appear several hours later. ow this material safety data sheet to the doctor in attend- ce.
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Protection of first-aiders		:		ers should pay attention to self-protection mmended protective clothing
If inhaled		:	Move to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.	
In case of	f skin contact	:	removing all cont	ately with soap and plenty of water while aminated clothes and shoes. f irritation develops or persists.
In case of eye contact		:	for at least 15 mi Keep eye wide op	pen while rinsing. love contact lens, if worn.
If swallowed			Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.	
If swallow	red	:	Do NOT induce v	omiting.
	red ortant symptoms a	: Ind e	Do NOT induce v Call a physician i	omiting. mmediately.
		ind e	Do NOT induce v Call a physician i ffects, both acute Causes skin irrita Causes serious e May cause respir Suspected of dar	omiting. mmediately. e and delayed ation. ye irritation.
<b>4.2 Most impo</b> Risks	ortant symptoms a	:	Do NOT induce v Call a physician i ffects, both acute Causes skin irrita Causes serious e May cause respir Suspected of dar Causes damage exposure.	omiting. mmediately. e and delayed ation. ye irritation. ratory irritation. naging the unborn child. to organs through prolonged or repeated
<b>4.2 Most impo</b> Risks	ortant symptoms a of any immediate	:	Do NOT induce v Call a physician i ffects, both acute Causes skin irrita Causes serious e May cause respir Suspected of dar Causes damage exposure.	omiting. mmediately. e and delayed ation. eye irritation. ratory irritation. naging the unborn child. to organs through prolonged or repeated
<ul> <li>4.2 Most impo Risks</li> <li>4.3 Indication Treatmen</li> </ul>	ortant symptoms a of any immediate	: mec	Do NOT induce v Call a physician i ffects, both acute Causes skin irrita Causes serious e May cause respir Suspected of dar Causes damage exposure.	omiting. mmediately. e and delayed ation. eye irritation. ratory irritation. naging the unborn child. to organs through prolonged or repeated d special treatment needed ically.
<ul> <li>4.2 Most impo Risks</li> <li>4.3 Indication Treatment</li> <li>SECTION 5:</li> </ul>	ortant symptoms a of any immediate t Firefighting mea	: mec	Do NOT induce v Call a physician i ffects, both acute Causes skin irrita Causes serious e May cause respir Suspected of dar Causes damage exposure.	omiting. mmediately. e and delayed ation. eye irritation. ratory irritation. naging the unborn child. to organs through prolonged or repeated d special treatment needed ically.
<ul> <li>4.2 Most imporent imporent</li></ul>	ortant symptoms a of any immediate t Firefighting mea	: mec : isure	Do NOT induce v Call a physician i ffects, both acute Causes skin irrita Causes serious e May cause respir Suspected of dar Causes damage exposure.	omiting. mmediately. <b>e and delayed</b> ttion. by e irritation. ratory irritation. naging the unborn child. to organs through prolonged or repeated <b>d special treatment needed</b> ically. cal supervision for at least 48 hours.

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

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	Hazaro ucts	lous combustion prod-	:	bustion	nposition products due to incomplete com- e, carbon dioxide and unburned hydrocar-
5.3 A	Advice	for firefighters			
	Special protective equipment for fire-fighters		:		e, wear self-contained breathing apparatus. tective equipment.
	Furthe	r information	:	Collect contamina must not be disch Fire residues and	o cool unopened containers. ated fire extinguishing water separately. This narged 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 :	<ul> <li>Wear personal protective equipment.</li> <li>Evacuate personnel to safe areas.</li> <li>Ensure adequate ventilation, especially in confined areas.</li> <li>Remove all sources of ignition.</li> <li>Do not smoke.</li> <li>Avoid contact with skin, eyes and clothing.</li> <li>Sweep up to prevent slipping hazard.</li> <li>In the case of vapor formation use a respirator with an approved filter.</li> </ul>
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 conta	inment and 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 normal protection and costion 0	For dispassal considerations and postion 12

### 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.

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				from the applicati	h skin and eyes. on of dust, particulates, spray or mist arising on of this mixture. of dust from sanding.
		on protection against d explosion	:	open flames, hot smoke. Take mea	explosive mixtures with air. Keep away from surfaces and sources of ignition. Do not asures to prevent the build up of electrostatic osion-proof equipment.
7.2	Conditi	ons for safe storage,	incl	uding any incomp	patibilities
	Requirements for storage areas and containers		:		container. Keep containers tightly closed in a I-ventilated place.
		r information on stor- nditions	:	moisture. Keep a	heat and sources of ignition. Protect from way from direct sunlight. Do not store at ove 30 °C / 86 °F.
	Advice	e on common storage	:	Incompatible with Keep away from	oxidizing agents. food and drink.
	Storag	e 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			
styrene	100-42-5	AGW	20 ppm 86 mg/m3	DE TRGS 900			
	Peak-limit cat	egory: 2;(II)		·			
	Further inform	Further information: When there is compliance with the OEL and biological					
	tolerance valu	ies, there is no risk o	of harming the unborn child	-			
Talc	14807-96-6	AGW (Inhalable	10 mg/m3	DE TRGS			
		fraction)		900			
	Peak-limit cat	egory: 2;(II)					
	Further inform	Further information: When there is compliance with the OEL and biological					
	tolerance valu	tolerance values, there is no risk of harming the unborn child					
		AGW (Alveolate	1,25 mg/m3	DE TRGS			
		fraction)		900			
	Peak-limit cat	egory: 2;(II)					
	Further inform	Further information: When there is compliance with the OEL and biological					
	tolerance valu		of harming the unborn child				
		TWA (Respirable	0,1 mg/m3	2004/37/EC			

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			Further inform	dust) dust)	s or mutagens			
	Titanium c	lioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m3 (Titanium dioxide)	DE TRGS 900		
			Peak-limit category: 2;(II)					
					e is compliance with the OEL k of harming the unborn child			
				AGW (Alveolate	1,25 mg/m3	DE TRGS		
				fraction)	(Titanium dioxide)	900		
			Peak-limit cat	egory: 2;(II)				
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child							

### **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
styrene	100-42-5	mandelic acid + phenylglyoxylic acid: 600 mg/g Creatinine (Urine)	In case of long- term exposure: after more than one shift, Immedi- ately after expo- sure or after work- ing hours	TRGS 903

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

Substance name	End Use	Routes of expo- sure	Potential health ef- fects	Value
styrene	Workers	Dermal	Long-term systemic effects, Chronic ef- fects	406 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects, Chronic ef- fects	85 mg/m3
	Workers	Inhalation	Acute systemic ef- fects, Chronic effects	289 mg/m3
	Workers	Inhalation	Acute local effects, Short-term exposure	306 mg/m3
	Consumers	Oral	Long-term systemic effects, Chronic ef- fects	2,1 mg/kg bw/day
	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

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

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Substansa noma	Environmental Comportment			
Substance name	Environmental Compartment Fresh water	Value		
styrene	Sea water	0,028 mg/l		
	Fresh water sediment	0,014 mg/l 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		
2 Exposure controls				
Personal protective equipn	nent			
Eye/face protection	: Safety glasses with side-shields conf	orming to EN166		
Hand protection				
Material	: Fluorinated rubber			
Break through time	: > 480 min			
Glove thickness	: >= 0,4 mm			
Directive	: DIN EN 374			
Protective index	: Class 6			
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 cloth or heat-resistant synthetic fibres. Long sleeved clothing			
Respiratory protection	<ul> <li>Apply technical measures to comply exposure limits.</li> <li>If exposure cannot be avoided by the haust ventilation, suitable respiratory should be used.</li> <li>Dry sanding, flame cutting and/or we al will give rise to dust and/or hazard Use the indicated respiratory protection exposure limit is exceeded and/or in a (dust).</li> </ul>	e provision of local ex- protective equipment lding of the cured materi- ous fumes. ion if the occupational		
	(dust).			

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		Avoid contact	o 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	:	paste
	Color	:	beige
	Odor	:	characteristic
	Melting point/range	:	-30 °C Literary value styrene
	Boiling point/boiling range	:	145 °C (1.013 hPa) Literary value styrene
	Upper explosion limit / Upper flammability limit	:	6,1 %(V) Literary value styrene
	Lower explosion limit / Lower flammability limit	:	1,1 %(V) Literary value styrene
	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. 1,1 g/cm3 (20 °C)

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Relative vapor density	: No data available
9.2 Other information Explosives	: Not explosive In use, may form flammable/explosive vapor-air mixture.
Flammability (liquids)	: Flammable
Self-ignition	: not auto-flammable

### **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	<ul> <li>Avoid radical-forming starting agents, peroxides and reactive metals.</li> <li>Polymerization can occur.Polymerization is a highly exother- mic reaction and may generate sufficient heat to cause ther- mal decomposition and/or rupture containers.</li> </ul>
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 based on available information.

#### Product:

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

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	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:	
Acute oral toxicity	: LD50 Oral (Rat): 124 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 0,046 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	<ul> <li>Assessment: The substance or mixture has no acute derma toxicity Remarks: Effects of skin contacts may include: Causes burns.</li> </ul>
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
Skin corrosion/irritation Causes skin irritation.	
Components:	
styrene:	
Species Result	: Rabbit : irritating
1,4-naphthoquinone:	
Result	: Causes burns.

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Serio	us eye damage/ey	e irritation	
	es serious eye irrita		
Comp	oonents:		
styre	ne:		
Speci		: Rabbit	
Resu	t	: irritating	
1,4-na	aphthoquinone:		
Resu		: Risk of serie	ous damage to eyes.
Resp	iratory or skin ser	sitization	
Skin	sensitization		
Not cl	assified based on a	available information.	
Resp	iratory sensitizatio	on	
Not cl	assified based on a	available information.	
Com	oonents:		
styre	ne:		
Speci		: Guinea pig	
Resu	I	: Does not ca	ause skin sensitization.
1,4-na	aphthoquinone:		
Resu	t	: May cause	sensitization by skin contact.
Germ	cell mutagenicity	,	
Not cl	assified based on a	available information.	
Carci	nogenicity		
Not cl	assified based on a	available information.	
-	oductive toxicity	the uphern child	
	ected of damaging <sup>.</sup> conents:	the unborn child.	
styre			of domaging the unborn shild. Some outdance
sessn	oductive toxicity - As nent		of damaging the unborn child., Some evidence ects on development, based on animal experi-
STOT	-single exposure		
	ause respiratory in	itation	

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Components:			
styrene:			
Assessment	:	May cause respira	atory irritation.
1,4-naphthoquinone:			
Assessment	:	May cause respira	atory irritation.
STOT-repeated exposure Causes damage to organs thr	ough	n prolonged or repe	eated exposure.
Components:			
styrene:			
Routes of exposure Target Organs Assessment	:	Inhalation hearing organs Causes damage t exposure.	o organs through prolonged or repeated
Aspiration toxicity Not classified based on availa	ble ir	nformation.	
Components:			
styrene: May be fatal if swallowed and 11.2 Information on other hazard		rs airways.	
Endocrine disrupting prope			
Product:			
Assessment	:	ered to have endo REACH Article 57	xture does not contain components consid- ocrine disrupting properties according to '(f) or Commission Delegated regulation r Commission Regulation (EU) 2018/605 at higher.
SECTION 12: Ecological infor	mat	ion	
12.1 Toxicity			
Components:			
styrene:			
Toxicity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 4,02 mg/l s h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 4,7 mg/l 3 h

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	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/ Exposure time: 96 h	I
Toxicity to microorganisms	: EC50 (Natural microorganism): ca. 500 mg/l Method: OECD Test Guideline 209	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<ul> <li>NOEC: 1,01 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211</li> </ul>	
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	
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (algae)): 0,42 mg/l Exposure time: 72 h	
M-Factor (Acute aquatic tox- icity)	: 10	
M-Factor (Chronic aquatic toxicity)	: 1	
Ecotoxicology Assessment		
Acute aquatic toxicity	: Very toxic to aquatic life.	
Chronic aquatic toxicity	: Very toxic to aquatic life with long lasting effects.	
12.2 Persistence and degradabili	у	
Components:		
styrene:		

Piedegrodebility		Deputy Deputy biodegradable
Biodegradability	•	Result: Readily biodegradable.
		Biodegradation: 70,9%
		Exposure time: 28 d

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<b>1,4-naphthoquinone:</b> Biodegradability	Bio Exp	Result: Not rapidly biodegradable Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301	
12.3 Bioaccumulative potentia	I		
Components:			
styrene: Partition coefficient: n- octanol/water	: log	Pow: 2,96 (2	5 °C)
<b>1,4-naphthoquinone:</b> Partition coefficient: n- octanol/water	: log	Pow: 1,77 (25	5 °C)
<b>Talc:</b> Partition coefficient: n- octanol/water	: log pH	Pow: -9,4 (25 : 7	5 °C)
<b>12.4 Mobility in soil</b> No data available			
12.5 Results of PBT and vPvB	assessme	ent	
Product: Assessment	to t ver	be either persi	nixture contains no components considered istent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Endocrine disrupting pro	perties		
Product: Assessment	ere RE (El	d to have end ACH Article 5	nixture does not contain components consid- locrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
12.7 Other adverse effects			
Product: Additional ecological infor-	: No	data available	9

mation

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## Carsystem Liquid Putty

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### **SECTION 13: Disposal considerations**

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

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

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

#### 14.2 UN proper shipping name

ADG	: RESIN SOLUTION
ADN	: RESIN SOLUTION
ADR	: RESIN SOLUTION
RID	: RESIN SOLUTION
IMDG	: RESIN SOLUTION
ΙΑΤΑ	: RESIN SOLUTION

### 14.3 Transport hazard class(es)

ADG

	Class	Subsidiary risks
:	3	

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ADN	: 3	
ADR	: 3	
RID	: 3	
IMDG	: 3	
ΙΑΤΑ	: 3	
14.4 Packing group		
<b>ADG</b> Packing group	: 111	
ADN Packing group Classification Code Hazard Identification Number Labels	: III : F1 : 30 : 3	
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	: III : F1 : 30 : 3 : (D/E)	
<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) Packing instruction (LQ) Packing group Labels	: 366 : Y344 : III : Flammable Liquic	6
IATA (Passenger) Packing instruction (passen-	: 355	S
ger aircraft) Packing instruction (LQ) Packing group Labels	: Y344 : III : Flammable Liquic	ls
14.5 Environmental hazards		
<b>ADG</b> Environmentally hazardous	: no	
ADN Environmentally hazardous	: no	

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<b>ADR</b> Enviro	onmentally hazardous	: no		
<b>RID</b> Enviro	onmentally hazardous	: no		
<b>IMDG</b> 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

c			
	REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
			If you intend to use this product as tattoo ink, please contact your ven- dor.
	REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).	:	Not applicable
	Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
	Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
	REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
	Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	FLA	AMMABLE LIQUIDS
	Water hazard class (Germa- ny) : WGK 2 obviously haz Classification accordi		us to water AwSV, Annex 1 (5.2)

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Volatil	e organic compounds		2/EC compounds (VOC) content: < 250 g/l 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.

This Product is considered compliant to AIIC (Australian Inventory of Industrial Chemicals).

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

Full text of H-Statements		
H226	:	Flammable liquid and vapor.
H301	:	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 abbreviation	ns	
Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Repr.	:	Reproductive toxicity
Skin Corr.	:	Skin corrosion

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Skin Irrit. Skin Sens. STOT RE STOT SE		gan toxicity - repeated exposure gan toxicity - single exposure
2004/37/EC	: Europe. Directive	2004/37/EC on the protection of workers ated to exposure to carcinogens or mutagens
DE TRGS 900 TRGS 903 2004/37/EC / TWA DE TRGS 900 / AGW	: Germany. TRGS : c - Biological limit : Long term exposit : Time Weighted A	ure limit

ADG – Australian Dangerous Goods; 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 as- sociated 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) Ef- fect 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 sub- stance: 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 Re- striction 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 procedure:					
Flam. Liq. 3	H226	Based on product data or assessment			
Skin Irrit. 2	H315	Calculation method			
Eye Irrit. 2	H319	Calculation method			
Repr. 2	H361d	Calculation method			

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STOT	SE 3	H335	Calculation method	
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.

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

1.1	Product identifier		
	Trade name	:	CHP Härter
	Product code	:	CS147473
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Curing chemical
	Recommended restrictions on use	:	Industrial use, professional use
1.3	Details of the supplier of the	sa	fety data sheet
	Company	:	A.Förster & Co.KG Esinger Steinweg 50 25436 Uetersen Germany
			info@foerster-co.de
	Telephone	:	04122-3682
	Responsible Department	:	Laboratory
			04122-3682 info@foerster-co.de
1.4	Emergency telephone		
	Telephone	:	Giftinformationszentrum (GIZ)-Nord, Göttingen, Deutschland 0551 19240

### **IMPORTED BY:**

Sydney Automotive Paints & Equipment PTY LTD Unit A3, 366 Edgar St. Condell Park NSW 2200 AUSTRALIA, Tel. +02 9772 9000 , +02 9772 9001 ·

Emergency telephone number: If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131 126, New Zealand 0800 764 766



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### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 127 Flammable liquids, Category 2	<b>72/2008)</b> H225: Highly flammable liquid and vapor.
Organic peroxides, Type D	H242: Heating may cause a fire.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Specific target organ toxicity - single ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

### H335: May cause respiratory irritation.

#### 2.2 Label elements

Labeling (REGULATION (E Hazard pictograms	I <b>C)</b>   :	No 1272/2008)
Signal Word	:	Danger
Hazard Statements	:	<ul> <li>H225 Highly flammable liquid and vapor.</li> <li>H242 Heating may cause a fire.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H361d Suspected of damaging the unborn child.</li> </ul>
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary Statements	:	<ul><li>P101 If medical advice is needed, have product container or label at hand.</li><li>P102 Keep out of reach of children.</li></ul>
		Prevention:P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.P220Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible



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		P271 Use only	r in original packaging. outdoors or in a well-ventilated area. rective gloves/ protective clothing/ eye protec- on.
		Response:	
		NOT induce vomit P303 + P361 + P3 ately all contamin P305 + P351 + P3 with water for sev	<ul> <li>353 IF ON SKIN (or hair): Take off immediated clothing. Rinse skin with water.</li> <li>338 + P310 IF IN EYES: Rinse cautiously eral minutes. Remove contact lenses, if predo. Continue rinsing. Immediately call a</li> </ul>
		<b>Storage:</b> P403 + P235 S P405 Store lock	tore in a well-ventilated place. Keep cool. sed 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:

ethyl acetate 4-hydroxy-4-methylpentan-2-one cyclohexanone, 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

### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		



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ethyl acetate		141-78-6 205-500-4 607-022-00-5 01-2119475103-4	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 50 - < 70
4-hydroxy-4-meth	nylpentan-2-one	123-42-2 204-626-7 603-016-00-1 01-2119473975-2	Flam. Liq. 3; H226 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) specific concentration limit Eye Irrit. 2; H319 >= 10 %	>= 20 - < 30
cyclohexanone, p	peroxide	12262-58-7 235-527-7 617-010-00-1 01-2120762253-5	STOT SE 3; H335 (Respiratory system) specific concentration limit STOT SE 3; H335 >= 5 % STOT SE 3; H335 >= 5 % Acute toxicity esti- mate Acute oral toxicity:	>= 10 - < 20
	f obbroviations cor		1.242 mg/kg	

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. Show this material safety data sheet to the doctor in attendance. First aider needs to protect himself.



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If inhaled		Move to fresh air. Get medical attention.		
In case of skin contact	Wash off imm Immediate m	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul- ty.		
In case of eye contact	for at least 15 Keep eye wid Remove cont Protect unhar	e open while rinsing. act lenses.		
If swallowed	Do NOT indu Call a physici	with water and drink afterwards plenty of water. ce vomiting. an immediately. nmediately to hospital.		
4.2 Most important symptoms an	d effects, both a	cute and delayed		
Dista		ua ava damara		
Risks	May cause re May cause di	us eye damage. spiratory irritation. owsiness or dizziness. damaging the unborn child. re burns.		
	May cause re May cause di Suspected of Causes seve	spiratory irritation. owsiness or dizziness. damaging the unborn child. re burns.		
<b>4.3 Indication of any immediate r</b> Treatment	May cause re May cause di Suspected of Causes seve	spiratory irritation. owsiness or dizziness. damaging the unborn child. re burns. and special treatment needed		
4.3 Indication of any immediate r	May cause re May cause dr Suspected of Causes seve nedical attention : Treat symptor	spiratory irritation. owsiness or dizziness. damaging the unborn child. re burns. and special treatment needed		
4.3 Indication of any immediate r Treatment SECTION 5: Firefighting meas	May cause re May cause dr Suspected of Causes seve nedical attention : Treat symptor	spiratory irritation. owsiness or dizziness. damaging the unborn child. re burns. and special treatment needed		
<b>4.3 Indication of any immediate r</b> Treatment	May cause re May cause dr Suspected of Causes seve nedical attention : Treat symptor	spiratory irritation. owsiness or dizziness. damaging the unborn child. re burns. and special treatment needed matically. de (CO2) et		
<ul> <li>4.3 Indication of any immediate r Treatment</li> <li>SECTION 5: Firefighting meas</li> <li>5.1 Extinguishing media</li> </ul>	May cause re May cause du Suspected of Causes seve nedical attention : Treat sympton sures : Carbon dioxic Dry powder Water spray j	spiratory irritation. owsiness or dizziness. damaging the unborn child. re burns. and special treatment needed matically. de (CO2) et cant foam		
<ul> <li>4.3 Indication of any immediate r Treatment</li> <li>SECTION 5: Firefighting meas</li> <li>5.1 Extinguishing media Suitable extinguishing media</li> <li>Unsuitable extinguishing media</li> </ul>	May cause re May cause di Suspected of Causes seve nedical attention : Treat sympton sures : Carbon dioxid Dry powder Water spray j Alcohol-resist : High volume	spiratory irritation. owsiness or dizziness. damaging the unborn child. re burns. and special treatment needed matically. de (CO2) et cant foam water jet		
<ul> <li>4.3 Indication of any immediate r Treatment</li> <li>SECTION 5: Firefighting meas</li> <li>5.1 Extinguishing media Suitable extinguishing media</li> <li>Unsuitable extinguishing</li> </ul>	May cause re May cause di Suspected of Causes seve nedical attention : Treat sympton : Carbon dioxic Dry powder Water spray j Alcohol-resist : High volume	spiratory irritation. owsiness or dizziness. damaging the unborn child. re burns. and special treatment needed matically. de (CO2) et cant foam water jet		



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5.3 Advi	ce for firefighters			
•	cial protective equipment ire-fighters	:		ed breathing apparatus and protective suit. mposition products may be a hazard to
Furt	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. Remove all sources of ignition. Do not smoke. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Wear respiratory protection.
6.2 Environmental precautions		
Environmental precautions	:	Do not flush into surface water or sanitary sewer system.

#### mental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up		Soak up with inert absorbent material and dispose of as haz- ardous waste. Sweep up and shovel into suitable containers for disposal. Contact with incompatible substances can cause decomposi- tion at or below SADT.
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#### 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

Technical measures	Ensure that eyewash stations and sa the workstation location.	ifety showers are close to
Advice on safe handling	Wear personal protective equipment. Keep away from heat and sources of Handle and open container with care Keep container tightly closed and dry Never return unused material to store	ignition. e. 7.



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			polymerization ac	ation with readily oxidizable materials and ccelerators. ient ventilation, wear suitable respiratory pors/dust. of aerosol.
Advice on protection against fire and explosion		:	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. Vapors may form explosive mixtures with air.	
7.2 Con	ditions for safe storage,	incl	uding any incomp	patibilities
	quirements for storage as and containers	:	41 and 77 °F in a	container. Store in cool place. Store between dry, well ventilated place away from sources nd direct sunlight. Store away from other
Adv	vice on common storage	:	other reducing su	food, drink and animal feedingstuffs.
Sto	rage class (TRGS 510)	:	5.2	
7.3 Specific end use(s)				
-	ecific use(s)	:	for ventilation, pro	over amongst other things the requirement otective clothing, personal protective equip- obtained from the National Occupational

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

### 8.1 Control parameters

### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
ethyl acetate	141-78-6	STEL	400 ppm 1.468 mg/m3	2017/164/EU		
	Further inform	Further information: Indicative				
		TWA	200 ppm 734 mg/m3	2017/164/EU		
	Further information: Indicative					
		AGW	200 ppm 730 mg/m3	DE TRGS 900		



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		Peak-limit category: 2;(I)		
		Further information: When there is compliance with the OEL and biologica tolerance values, there is no risk of harming the unborn child		

	tolerance valu	ues, there is no risk	of harming the unborn child	0		
4-hydroxy-4- methylpentan-2- one	123-42-2	AGW	20 ppm 96 mg/m3	DE TRGS 900		
	Peak-limit cat	Peak-limit category: 2;(I)				
	Further information: Skin absorption					

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

Substance name	End Use	Routes of expo-	Potential health ef-	Value
Substance name	LIIU USE	sure	fects	
ethyl acetate	Workers	Inhalation	Long-term systemic	734 mg/m3
olityraddiaid	Wontere	Innalation	effects, Long-term	/ o r mg/mo
			local effects	
	Workers	Inhalation	Acute systemic ef-	1468 mg/m3
			fects, Acute local	
			effects	
	Workers	Skin contact	Long-term systemic	63 mg/kg
			effects	bw/day
	Consumers	Inhalation	Long-term systemic	367 mg/m3
			effects, Long-term	
			local effects	
	Consumers	Inhalation	Acute systemic ef-	734 mg/m3
			fects, Acute local effects	
	Consumers	Skin contact		27 mg/kg
	Consumers	Skin contact	Long-term systemic effects	37 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic	4,5 mg/kg
	Consumers	Ingestion	effects	bw/day
4-hydroxy-4-	Workers	Inhalation	Long-term systemic	59,2 mg/m3
methylpentan-2-one	110molo	innalation	effects	00, <u>2</u> mg/mo
	Workers	Inhalation	Acute local effects	240 mg/m3
	Workers	Skin contact	Long-term systemic	840 mg/kg
			effects	
	Consumers	Inhalation	Long-term systemic	10,4 mg/m3
			effects	
	Consumers	Skin contact	Long-term systemic	60 mg/kg
			effects	
	Consumers	Oral	Long-term systemic	3 mg/kg
			effects	

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

Substance name	Environmental Compartment	Value
ethyl acetate	Fresh water	0,24 mg/l
	Sea water	0,024 mg/l
	Fresh water sediment	1,15 mg/kg dry weight (d.w.)
	Sea sediment	0,115 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	650 mg/l
	Soil	0,148 mg/kg dry



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		Oral (Second	ary Poisoning)	weight (d.w.)

		weight (d.w.)
	Oral (Secondary Poisoning)	200 mg/kg food
4-hydroxy-4-methylpentan-2-one	Fresh water	2 mg/l
	Sea water	0,2 mg/l
	Sewage treatment plant (STP)	10 mg/l
	Fresh water sediment	9,06 mg/kg
	Sea sediment	0,91 mg/kg
	Soil	0,63 mg/kg

#### 8.2 Exposure controls

Personal protective equipme	ent	
Eye/face protection	:	Safety glasses with side-shields conforming to EN166
Hand protection Material Directive	:	Neoprene DIN EN 374
Material Directive	:	Nitrile rubber DIN EN 374
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.
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. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of inadequate ventilation wear respiratory protection.
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	: liquid
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Color	: colorless
Odor	: characteristic
Melting point/range	: not determined
Boiling point/boiling range	: 77 °C
Upper explosion limit / Upper flammability limit	: 11,5 %(V)
Lower explosion limit / Lower flammability limit	: 1,4 %(V)
Flash point	: -4 °C
Self-Accelerating decomposi- tion temperature (SADT)	: 50 °C
рН	: 4 - 6 Concentration: 10 %
Viscosity Viscosity, dynamic	: not determined
Viscosity, kinematic	: No data available
Solubility(ies) Water solubility	: partly miscible
Partition coefficient: n- octanol/water	: No data available
Vapor pressure	: not determined
Density	: ca. 1 g/cm3 (20 °C)
9.2 Other information	
Oxidizing properties	: Organic peroxide
	Sustains combustion
Organic peroxides	: Peroxide content: 10 % The substance or mixture is an organic peroxide classified as type D.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if used as directed.



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ical stability			
composition if stored a nposes on heating.	nd app	blied as directed.	
bility of hazardous re	actior	าร	
dous reactions	:	Reacts violently	sition. in contact with acids, amines, driers, polymer- ors and easily oxidized materials.
itions to avoid			
tions to avoid	:	Extremes of tem Keep away from	temperatures above: > 25 °C perature and direct sunlight. heat and sources of ignition. ompatible substances can cause decomposi- SADT.
patible materials			
als to avoid	:		ong acids and bases, heavy metals and s, reducing agents
	ical stability composition if stored a nposes on heating. bility of hazardous re dous reactions itions to avoid tions to avoid	DE / EN 05.1 ical stability composition if stored and app nposes on heating. bility of hazardous reaction dous reactions : itions to avoid tions to avoid : mpatible materials	ical stability composition if stored and applied as directed. nposes on heating. bility of hazardous reactions dous reactions : Risk of decompo Reacts violently ization accelerate itions to avoid : Do not expose to Extremes of tem Keep away from Contact with inco tion at or below S mpatible materials als to avoid : Accelerators, stru- heavy metal salte Rust Iron

### **10.6 Hazardous decomposition products**

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

### **SECTION 11: Toxicological information**

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

# Acute toxicity

Not classified based on available information.

### Product:

Acute oral toxicity	: Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method	
Components:		
ethyl acetate:		
Acute oral toxicity	: LD50 Oral (Rat): 4.934 mg/kg Method: OECD Test Guideline 401	
Acute inhalation toxicity	<ul> <li>LC0 (Rat): 22,5 mg/l, &gt; 6000 ppm</li> <li>Exposure time: 6 h</li> <li>Test atmosphere: vapor</li> <li>Assessment: The substance or mixture has no acute inhation toxicity</li> </ul>	ala-



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Acute dermal toxicity	: LD50 Dermal (Rabbit): > 20.000 mg/kg
4-hydroxy-4-methylpentan-2	P-one:
Acute oral toxicity	: LD50 Oral (Rat): 3.002 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	<ul> <li>LC0 (Rat): &gt;= 7,6 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity</li> </ul>
Acute dermal toxicity	: LD0 (Rat): > 1.875 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
cyclohexanone, peroxide:	
Acute oral toxicity	: LD50 Oral (Rat): 1.242 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 5 mg/l Exposure time: 4 h Test atmosphere: vapor Assessment: The substance or mixture has no acute inhala- tion toxicity</li> </ul>
Skin corrosion/irritation Causes severe burns.	
Components:	
<b>ethyl acetate:</b> Result	: Repeated exposure may cause skin dryness or cracking.
<b>cyclohexanone, peroxide:</b> Species Result Remarks	: Rabbit : Corrosive : Category 1B
Serious eye damage/eye irr Causes serious eye damage.	itation
Components:	
<b>cyclohexanone, peroxide:</b> Species Result	<ul><li>Rabbit</li><li>Irreversible effects on the eye</li></ul>



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Resp	iratory or skin sensi	tization	
	sensitization assified based on ava	ilable information.	
-	iratory sensitization assified based on ava	ilable information.	
	cell mutagenicity assified based on ava	ilable information.	
	n <b>ogenicity</b> assified based on ava	ilable information.	
-	oductive toxicity ected of damaging the	unborn child.	
<u>Comp</u>	oonents:		
-	roxy-4-methylpental oductive toxicity - As-		e of adverse effects on development, based on
	-single exposure		
	ause respiratory irrita ause drowsiness or d		
<u>Comp</u>	oonents:		
-	roxy-4-methylpenta		
Asses	ssment	: May cause res	piratory irritation.
-	<b>hexanone, peroxide</b> ssment		piratory irritation.
	-repeated exposure assified based on ava	ilable information.	
-	<b>ation toxicity</b> assified based on ava	ilable information.	
11.2 Infori	mation on other haz	ards	
Endo	crine disrupting pro	perties	
<u>Produ</u> Asses	<u>uct:</u> ssment	ered to have e REACH Article	<ul> <li>/mixture does not contain components consid- ndocrine disrupting properties according to a 57(f) or Commission Delegated regulation</li> <li>0 or Commission Regulation (EU) 2018/605 at or higher.</li> </ul>



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SEC	SECTION 12: Ecological information						
12.1	Toxicit	у					
<u>(</u>	Compo	onents:					
e	ethyl a	cetate:					
٦	Toxicity	<i>ı</i> to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 230 mg/l } h		
		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 610 mg/l 3 h		
	Toxicity plants	/ to algae/aquatic	:	NOEC (Desmode Exposure time: 72 Method: OECD Te			
٢	Toxicity	to microorganisms	:	NOEC (Pseudomo Exposure time: 16	onas putida): 650 mg/l 5 h		
	Toxicity city)	/ to fish (Chronic tox-	:	NOEC: > 9,65 mg Exposure time: 32 Species: Pimepha Method: OECD Te	? d Iles promelas (fathead minnow)		
a		/ to daphnia and other invertebrates (Chron- ity)		NOEC: 2,4 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)		
4	4-hydro	oxy-4-methylpentan-2	-on	9:			
	-	<i>i</i> to fish	:		Sh		
		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te			
	Toxicity plants	∕ to algae/aquatic	:	EC50 (Pseudokiro 1.000 mg/l End point: Growth Exposure time: 72 Method: OECD Te	2 h		
a		/ to daphnia and other invertebrates (Chron- ity)	:	NOEC: 100 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)		



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-	clohexanone, peroxide: xicity to fish	:	LC50 (Danio reric Exposure time: 9 Method: OECD T	
To	xicity to microorganisms	:	EC50 (Bacteria): Exposure time: 0,	
	otoxicology Assessment ronic aquatic toxicity	:	This product has	no known ecotoxicological effects.
12.2 Pe	rsistence and degradabili	ty		
<u>Co</u>	mponents:			
	n <b>yl acetate:</b> ndegradability	:	Exposure time: 20	79 % emical oxygen demand
<b>4-</b> h	ydroxy-4-methylpentan-2	-on	e:	
Bio	degradability	:	Result: rapidly bic Biodegradation: 9 Exposure time: 29 Method: OECD T	98,51 %
12.3 Bio	paccumulative potential			
<u>Co</u>	mponents:			
eth	yl acetate:			
	rtition coefficient: n- anol/water	:	log Pow: 0,68 (25	°C)
4-h	ydroxy-4-methylpentan-2	-on	e:	
	rtition coefficient: n- anol/water	:	log Pow: -0,09 (20	0 °C)
Pa oct	clohexanone, peroxide: rtition coefficient: n- anol/water	:	Pow: 1,2 (29 °C)	
	b <b>bility in soil</b> data available			



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12.5 Resu	Ilts of PBT and vPvB	assessment	
Produ	uct:		
Asses	ssment	to be either	nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of her.
12.6 Endo	ocrine disrupting prop	perties	
Prod	uct:		
Asses	ssment	ered to hav REACH Art (EU) 2017/2	nce/mixture does not contain components consid- e endocrine disrupting properties according to icle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 at 1% or higher.
12.7 Othe	r adverse effects		
Produ			
Additi matio	ional ecological infor- n	: No data ava	ailable
SECTION	N 13: Disposal cons	iderations	
13.1 Wast	e treatment methods		
Produ	uct	Do not disp Do not emp tainer at ha	waste streams during collection. ose of with domestic refuse. ty into drains, dispose of this material and its con- zardous or special waste collection point. in accordance with local regulations.
Conta	aminated packaging	the unused	that is not properly emptied must be disposed of as product. in accordance with local regulations.
Wast	e Code		ng Waste Codes are only suggestions:

16 05 06, laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals 16 09 03, peroxides, for example hydrogen peroxide

# SECTION 14: Transport information

### 14.1 UN number or ID number

ADG	: UN 3105	
ADN	: UN 3105	
ADR	: UN 3105	



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RID		:	UN 3105	
IMDG		÷		
ΙΑΤΑ		:	UN 3105	
14.2 UN proper	shipping name			
ADG		:	ORGANIC PER	ROXIDE TYPE D, LIQUID
			(cyclohexanone	e, peroxide)
ADN		:		ROXIDE TYPE D, LIQUID
			(cyclohexanone	
ADR		:		ROXIDE TYPE D, LIQUID
DID				
RID		·		
IMDG		:		ROXIDE TYPE D, LIQUID
		•	(cyclohexanone	
ΙΑΤΑ		:		ROXIDE TYPE D, LIQUID
			(cyclohexanone	
14.3 Transport h	nazard class(es)			
			Class	Subsidiary risks
ADG		:	5.2	
ADN		:	5.2	
ADR		:	5.2	
RID		:	5.2	
IMDG		:		
-		-		
ΙΑΤΑ		:	5.2	HEAT
14.4 Packing gro	oup			
<b>ADG</b> Packing gro			Not assigned b	vregulation
ADN	чр	•	Not assigned b	yregulaton
Packing gro	up	:	Not assigned b	v regulation
Classificatio		:	P1	
Labels		:	5.2	
ADR			Not opping a h	
Packing gro Classificatio			Not assigned b P1	yregulation
Labels			5.2	
Tunnel restr	iction code	:	(D)	
RID				
Packing gro Classificatio		:	Not assigned b P1	y regulation
	tification Number	:	539	
Labels		:	5.2	



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	IMDG				
	Packin Labels EmS C		:	Not assigned by r 5.2 F-J, S-R	regulation
	IATA (	Cargo)			
	Packin aircraft	ng instruction (cargo t)	:	570	
		ng group	:	Not assigned by r	egulation
	Labels		:	Organic Peroxide	es, Keep Away From Heat
	-	Passenger) og instruction (passen- craft)	:	570	
		ng group	:	Not assigned by r Organic Peroxide	egulation s, Keep Away From Heat
14.5	Enviro	onmental hazards			
	ADG Enviro ADN	nmentally hazardous	:	no	

Environmentally hazardous	:	no
ADR Environmentally hazardous	:	no
<b>RID</b> 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 following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.



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	EACH - Candidate List of Su oncern for Authorization (Art	, ,		:	Not applicable
	egulation (EC) No 1005/2009 ate the ozone layer	9 on substances that d	9-	:	Not applicable
	egulation (EU) 2019/1021 or hts (recast)	n persistent organic pol	lu-	:	Not applicable
	EACH - List of substances sinnex XIV)	ubject to authorisation		:	Not applicable
pea	eveso III: Directive 2012/18/I an Parliament and of the Co ntrol of major-accident haza ngerous substances.	ouncil on the	A	٩N	F-REACTIVE SUBSTANCES O MIXTURES and ORGANIC ROXIDES
Wa ny)	ater hazard class (Germa- )	: WGK 2 obviously Classification acc			us to water AwSV, Annex 1 (5.2)

#### Other regulations:

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

Gefahrengruppe nach § 3 BGV B4: III (German regulatory requirements)

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

§ 5Abs. 4b : Derogation according to the Ordinance on the Prohibition of Chemicals (ChemVerbotsV)

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

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).

#### 15.2 Chemical Safety Assessment

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

This Product is considered compliant to AIIC (Australian Inventory of Industrial Chemicals).

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



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	Full tex	kt of H-Statements						
	H225		:	Highly flammable	liquid and vapor.			
	H226			Flammable liquid and vapor.				
	H240				leating may cause an explosion.			
	H302		:	Harmful if swallow				
	H314		:	Causes severe sk	in burns and eye damage.			
	H318		:	Causes serious e				
	H319		:	Causes serious e				
	H335		:	May cause respira				
	H336		:		iness or dizziness.			
	H361d		:	Suspected of dam	aging the unborn child.			
	EUH06	6	:		re may cause skin dryness or cracking.			
	Full tex	kt of other abbreviation	ons					
	Acute 7	Γox.	:	Acute toxicity				
	Eye Da	ım.	:	Serious eye dama	ige			
	Eye Irri	t.	:	Eye irritation	•			
	Flam. L	.iq.	:	Flammable liquids	;			
	Org. Pe		:	Organic peroxides	5			
	Repr.		:	Reproductive toxic	city			
	Skin Co	orr.	:	Skin corrosion				
	STOT S	SE	:	Specific target org	an toxicity - single exposure			
	2017/10	64/EU	:	Europe. Commiss	ion Directive 2017/164/EU establishing a			
				fourth list of indica	ative occupational exposure limit values			
	DE TR	GS 900	:	Germany. TRGS	900 - Occupational exposure limit values.			
	2017/1	64/EU / STEL	:	Short term exposi				
	2017/1	64/EU / TWA	:	Limit Value - eight				
	DE TR	GS 900 / AGW	:	Time Weighted Av	/erage			

ADG – Australian Dangerous Goods; 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 as- sociated 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 sub- stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances;



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(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 Re- striction 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	9:	Classification procedure:
Flam. Liq. 2	H225	Based on product data or assessment
Org. Perox. D	H242	Based on product data or assessment
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Repr. 2	H361d	Calculation method
STOT SE 3	H336	Calculation method
STOT SE 3	H335	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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