

Version	Revision Date:	SDS Number:	Date of last issue: 23.07.2024
5.0	25.10.2024	60000000301	Date of first issue: 13.04.2016

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

#### **1.1 Product identifier**

Trade name	:	BENOX <sup>®</sup> C-50S
Unique Formula Identifier (UFI)	:	UXA8-P0GG-K00X-VX7S

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	:	Curing chemical
stance/Mixture		

#### 1.3 Details of the supplier of the safety data sheet

Company	:	United Initiators GmbH DrGustav-Adolph-Str. 3 82049 Pullach
Telephone	:	+49 / 89 / 74422 – 0
E-mail address of person responsible for the SDS	:	contact@united-in.com

#### **1.4 Emergency telephone number**

0800 000 7801 (toll-free, access from Germany only) +49 89 220 61012

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

#### 2.1 Classification of the substance or mixture

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

Organic peroxides, Type D	H242: Heating may cause a fire.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360D: May damage the unborn child.
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.

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



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#### 2.2 Label elements

Labelling (REGULATION (E Hazard pictograms	EC) :	No 1272/200	
Signal word	:	Danger	
Hazard statements	:	H242 H317 H319 H360D H410	Heating may cause a fire. May cause an allergic skin reaction. Causes serious eye irritation. May damage the unborn child. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention</b> P201 P210 P234 P273 P280	: Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original packaging. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
		<b>Response:</b> P308 + P31 P370 + P37 P391	3 IF exposed or concerned: Get medical advice/ attention.

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

dibenzoyl peroxide (CAS-No. 94-36-0) dicyclohexyl phthalate (CAS-No. 84-61-7)

#### 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: This substance/mixture contains components considered to have endocrine disrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

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

#### 3.2 Mixtures

Chemical nature

: Organic Peroxide Solid mixture

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 45 - < 50
dicyclohexyl phthalate	84-61-7 201-545-9 607-719-00-4 01-2119978223-34	Skin Sens. 1; H317 Repr. 1B; H360D Aquatic Chronic 2; H411	>= 45 - < 50

For explanation of abbreviations see section 16.

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

#### 4.1 Description of first aid measures

General advice	:	<ul> <li>Take off contaminated clothing and shoes immediately.</li> <li>Call a physician immediately.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>If unconscious, place in recovery position and seek medical advice.</li> <li>Move out of dangerous area.</li> <li>Show this safety data sheet to the doctor in attendance.</li> <li>Do not leave the victim unattended.</li> </ul>
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing
If inhaled	:	Administer oxygen if breathing is difficult or cyanosis is ob-

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served.       If breathed in, move person into fresh air.         If not breathing, give artificial respiration.       If unconscious, place in recovery position and seek medical advice.         If symptoms persist, call a physician.       If symptoms persist, call a physician.         In case of skin contact       If symptoms persist, call a physician.         In case of skin contact       If symptoms persist, call a physician.         In case of eye contact       If on skin, rinse well with water.         If on skin, rinse well with water.       If on skin, rinse well with water.         If on skin, rinse well with water.       If on skin, rinse well with water.         If on skin, rinse well with water.       If on skin, rinse well with water.         If on skin, rinse well with water.       If on skin, rinse well with water.         If on skin, rinse well with water.       If on skin, rinse well with water.         If on skin, rinse well with water.       If on skin, rinse well with skin with plenty of water and seek medical advice.         Remove contact lenses.       Protect unharmed eye.         Keep eye wide open while rinsing.       If eye irritation persists, consult a specialist.         If swallowed       If symptoms persist, call a physician.         42 Most important symptoms are effects, both acute and delayed       Symptoms         Symptoms       If sesesitising effects         Ris	Version 5.0	Revision Date: 25.10.2024	SDS Number: 60000000301	Date of last issue: 23.07.2024 Date of first issue: 13.04.2016
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.         Wash contaminated clothing before re-use.         If on skin, rinse well with water.         If on clothes, remove clothes.         In case of eye contact       :         In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.         Remove contact lenses.         Protect unharmed eye.         Keep eye wide open while rinsing.         If eye irritation persists, consult a specialist.         If swallowed       :         Call a physician immediately.         Keep respiratory tract clear.         If symptoms and effects, both acute and delayed         Symptoms       :         Risks       :         May cause an allergic skin reaction.         Causes serious eye irritation.         May damage the unborn child.			If breathed in, m If not breathing, If unconscious, advice.	give artificial respiration. place in recovery position and seek medical
of water and seek medical advice.         Remove contact lenses.         Protect unharmed eye.         Keep eye wide open while rinsing.         If eye irritation persists, consult a specialist.         If swallowed       :         Call a physician immediately.         Keep respiratory tract clear.         If symptoms and effects, both acute and delayed         Symptoms       :         Risks       :         May cause an allergic skin reaction.         Causes serious eye irritation.         May damage the unborn child.	In ca	se of skin contact	In case of conta for at least 15 m and shoes. Wash contamin If on skin, rinse	ct, immediately flush skin with plenty of water inutes while removing contaminated clothing ated clothing before re-use. well with water.
Keep respiratory tract clear. If symptoms persist, call a physician.         4.2 Most important symptoms and effects, both acute and delayed Symptoms : sensitising effects         Risks : May cause an allergic skin reaction. Causes serious eye irritation. May damage the unborn child.         4.3 Indication of any immediate medical attention and special treatment needed	In ca	se of eye contact	of water and see Remove contac Protect unharm Keep eye wide	ek medical advice. t lenses. ed eye. open while rinsing.
Symptoms       : sensitising effects         Risks       : May cause an allergic skin reaction. Causes serious eye irritation. May damage the unborn child.         4.3 Indication of any immediate medical attention and special treatment needed	lf swa	allowed	Keep respirator	y tract clear.
Risks       : May cause an allergic skin reaction. Causes serious eye irritation. May damage the unborn child.         4.3 Indication of any immediate medical attention and special treatment needed	4.2 Most	important symptoms	and effects, both acu	te and delayed
Causes serious eye irritation. May damage the unborn child. 4.3 Indication of any immediate medical attention and special treatment needed	Symp	otoms	: sensitising effect	ts
	Risks	3	Causes serious	eye irritation.
Treatment : Treat symptomatically and supportively.	4.3 Indica	tion of any immediate	e medical attention a	nd special treatment needed
	Treat	ment	: Treat symptoma	atically and supportively.

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

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet

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#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- fighting	:	Risk of explosion if heated under confinement. Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up. Avoid confinement. Contact with incompatible materials or exposure to tempera- tures exceeding SADT may result in a self-accelerating de- composition reaction with release of flammable vapors which may auto-ignite. The product burns violently. Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses. Vapours may form explosive mixtures with air. The product will float on water and can be reignited on surface water. Cool closed containers exposed to fire with water spray.
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.
Specific extinguishing meth- ods	:	Do not use a solid water stream as it may scatter and spread fire. Remove undamaged containers from fire area if it is safe to do so. Use water spray to cool unopened containers.
Further information	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use a water spray to cool fully closed 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>Follow safe handling advice and personal protective equip- ment recommendations.</li> </ul>
	Use personal protective equipment.
	Avoid dust formation.
	Avoid breathing dust.
	Remove all sources of ignition.
	Never return spills in original containers for re-use.
	Treat recovered material as described in the section "Disposal considerations".

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#### 6.2 Environmental precautions

Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
		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	<ul> <li>Contact with incompatible substances can cause decomposition at or below SADT.</li> <li>Clear spills immediately.</li> <li>Suppress (knock down) gases/vapours/mists with a water spray jet.</li> <li>To clean the floor and all objects contaminated by this material, use plenty of water.</li> <li>Soak up with inert absorbent material.</li> <li>Isolate waste and do not reuse.</li> <li>Non-sparking tools should be used.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.</li> </ul>
	mine which regulations are applicable.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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

#### 7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Advice on safe handling	:	Open drum carefully as content may be under pressure. Avoid formation of respirable particles. Protect from contamination. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Never return any product to the container from which it was originally removed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the ap- plication area. Wash thoroughly after handling.

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				Persons susceptib allergies, chronic	ection see section 8. ole to skin sensitisation problems or asthma, or recurrent respiratory disease should not ny process in which this mixture is being
		on protection against l explosion	:	(which might caus from heat and sou equipment. Keep sources of ignition	ction to avoid static electricity discharge e ignition of organic vapours). Keep away irces of ignition. Use only explosion-proof away from open flames, hot surfaces and b. Keep away from combustible material. ion. Provide appropriate exhaust ventilation ust is formed.
	Hygien	e measures	:	food and drink. W	e skin, eyes and clothing. Keep away from hen using do not eat or drink. When using ash hands before breaks and immediately product.
7.2	Conditio	ons for safe storage,	incl	uding anv incom	patibilities
	Require	ements for storage and containers	:	Store in original co cool, well-ventilate ventilated place. O sure increases - co precautions. Store regulations. Avoid composition. Elec comply with the te	ontainer. Keep containers tightly closed in a ed place. Store in cool place. Keep in a well- Contamination may result in dangerous pres- losed containers may rupture. Observe label e in accordance with the particular national impurities (e.g. rust, dust, ash), risk of de- trical installations / working materials must echnological safety standards. Containers must be carefully resealed and kept upright
	Advice	on common storage	:		combustible materials. strong acids, bases, heavy metal salts and bstances.
	Storage	e class (TRGS 510)	:	5.2	
	Recom peratur	mended storage tem- e	:	< 30 °C	
	Further age sta	information on stor- bility	:	Stable under reco	mmended storage conditions.
7.3	-	<b>: end use(s)</b> c use(s)	:	For further informa	ation, refer to the product technical data

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SECTION 8: Exposure controls	/personal protection
8.1 Control parameters	
Occupational Exposure Limit	S
Allgemeiner Staubgrenzwert	10 mg/m3 Peak-limit: excursion factor (category): 2;(II) Value type (Form of exposure): AGW (Inhalable fraction) Basis: DE TRGS 900 Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborr child
	1,25 mg/m3 Peak-limit: excursion factor (category): 2;(II) Value type (Form of exposure): AGW (Alveolate fraction) Basis: DE TRGS 900 Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborr child
Dust	Basis: DE DFG MAK
	0,3 mg/m3 Peak-limit: excursion factor (category): 8; II Value type (Form of exposure): MAK (measured as the alveolate fraction) Basis: DE DFG MAK 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 o foetus is unlikely when the MAK value or the BAT value is ob- served
	4 mg/m3 Peak-limit: excursion factor (category): 8; II Value type (Form of exposure): MAK (inhalable fraction) Basis: DE DFG MAK 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 o foetus is unlikely when the MAK value or the BAT value is ob- served

Components	CAS-No.	Value type (Form	Control parameters	Basis

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		of exposure)				
dibenzoyl peroxide	94-36-0	AGW (Inhalable	5 mg/m3	DE TRGS		
		fraction)		900		
	Peak-limit: ex	Peak-limit: excursion factor (category): 1;(I)				
		MAK (measured	1 mg/m3	DE DFG MAK		
		as the alveolate				
		fraction)				
Peak-limit: excursion factor (category): 2; I						
	Further inform	Further information: Damage to the embryo or foetus is unlikely when the				
	MAK value or	MAK value or the BAT value is observed				
		MAK (inhalable	4 mg/m3	DE DFG MAK		
		fraction)				
	Peak-limit: excursion factor (category): 2; I					
	Further inform	Further information: Damage to the embryo or foetus is unlikely when the				
	MAK value or the BAT value is observed					

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
dibenzoyl peroxide	Workers	Inhalation	Long-term systemic effects	39 mg/m3
	Workers	Skin contact	Long-term systemic effects	34,3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	3,5 mg/m3
	Consumers	Skin contact	Long-term systemic effects	17 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
dicyclohexyl phthalate	Workers	Inhalation	Long-term systemic effects	35,2 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,87 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	0,25 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
dibenzoyl peroxide	Fresh water	0,02 µg/l
	Marine water	0,002 µg/l
	Sewage treatment plant	0,35 mg/l
	Fresh water sediment	0,013 mg/kg dry
		weight (d.w.)
	Marine sediment	0,001 mg/kg dry

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		weight (d.w.)
	Soil	0,003 mg/kg dry weight (d.w.)
dicyclohexyl phthalate	Fresh water	0,001 mg/l
	Marine water	0,0001 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1,06 mg/kg dry weight (d.w.)
	Marine sediment	0,106 mg/kg dry weight (d.w.)

#### 8.2 Exposure controls

#### Engineering measures

Minimize workplace exposure concentrations.

#### Personal protective equipment

i el solial protective equipilit	ent	
Eye/face protection	:	Ensure that eyewash stations and safety showers are close to the workstation location. Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Tightly fitting safety goggles Please wear suitable protective goggles. Also wear face pro- tection if there is a splash hazard.
		Equipment should conform to EN 166
Hand protection Material Break through time Glove thickness Directive Material Break through time Glove thickness Directive		butyl-rubber 480 min 0,47 mm Equipment should conform to EN 374 Nitrile rubber 480 min 0,40 mm Equipment should conform to EN 374
Remarks	:	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 protec- tive glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazard- ous substance and specific to place of work. For special ap- plications, we recommend clarifying the resistance to chemi- cals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
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Skin	and body protection	resistance d potential. Additional b task being p posable suit Wear as ap	opriate protective clothing based on chemical lata and an assessment of the local exposure ody garments should be used based upon the performed (e.g., sleevelets, apron, gauntlets, dis- is) to avoid exposed skin surfaces. propriate: dant antistatic protective clothing.
Resp	piratory protection	approved filt	of dust or aerosol formation use respirator with an ter. vith combination filter for vapour/particulate (EN
Fi	ilter type	: Filter type P	
Prote	ective measures	to the conce	protective equipment must be selected according entration and amount of the dangerous substance fic workplace.

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state	: powder	
Colour	: white	
Odour	: aromatic	
Odour Threshold	: No data available	
	No data available	
Melting point/ range	: Decomposition: Decomposes below the melting p	oint.
Boiling point/boiling range	: Not applicable	
Flammability	: Not applicable	
	Organic peroxide	

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		explosion limit / Upper bility limit	:	No data available	9
				Upper explosion No data available	
		explosion limit / Lower bility limit	:	No data available	9
				Lower explosion No data available	
F	Flash p	oint	:	Not applicable	
				Not applicable	
ŀ	Auto-igi	nition temperature	:	not determined	
		celerating decomposi- nperature (SADT)	:	temperature at w	t H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
k	рH		:	No data available	e substance/mixture is non-soluble (in water)
١	Viscosit Visc	ty osity, dynamic	:	Not applicable	
				Not applicable	
	Visc	osity, kinematic	:	Not applicable	
				Not applicable	
S	Solubili Wate	ty(ies) er solubility	:	insoluble	

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	Solubility in other solvents	:	No data available	3
	artition coefficient: n- ctanol/water	:	Not applicable	
	Dispersion Stability	:	not determined	
V	apour pressure	:	No data available	)
			No data available	)
R	elative density	:	not determined	
D	ensity	:	No data available	)
			No data available	)
В	ulk density	:	620 kg/m3	
R	elative vapour density	:	not determined	
P	article characteristics Particle size	:	not determined	
	Particle Size Distribution	:	No data available	)
	Dustiness	:	Avoid dust forma	tion.
	Shape	:	not determined	
	Crystallinity	:	Not applicable	
	Surface treatment /Coatings	:	Not applicable	

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#### 9.2 Other information **Explosives** Not explosive : Not explosive Avoid dust formation. Oxidizing properties : The substance or mixture is not classified as oxidizing. Organic peroxide Self-ignition : The substance or mixture is not classified as pyrophoric. Self-heating substances The substance or mixture is not classified as self heating. 2 Substances and mixtures, : The substance or mixture does not emit flammable gases in which in contact with water, contact with water. emit flammable gases Desensitised explosives : Not applicable

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

#### 10.1 Reactivity

Stable under recommended storage conditions. Heating may cause a fire or explosion.

#### **10.2 Chemical stability**

Stable under recommended storage conditions. No decomposition if stored normally.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Dust may form explosive mixture in air.
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#### 10.4 Conditions to avoid

Conditions to avoid	<ul> <li>Protect from contamination.</li> <li>Contact with incompatible substances can cause decomposition at or below SADT.</li> <li>Heat, flames and sparks.</li> <li>Avoid confinement.</li> </ul>
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#### 10.5 Incompatible materials

Materials to avoid

: Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

#### **10.6 Hazardous decomposition products**

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

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

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

#### Acute toxicity

Not classified due to lack of data.

#### **Components:**

dibenzoyl peroxide:	
Acute oral toxicity :	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity :	LC50 (Rat): > 24,3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity :	Remarks: No data available
dicyclohexyl phthalate:	
Acute oral toxicity :	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral tox- icity
Acute dermal toxicity :	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

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Produ	uct:		
Rema	arks	: May cause	e skin irritation in susceptible persons.
<u>Com</u>	oonents:		
diben	zoyl peroxide:		
Speci		: Rabbit	
	sure time	: 4 h	
Metho			st Guideline 404
Resul	I	: No skin irr	Itation
dicyc	lohexyl phthalate:		
Resul	t	: No skin irr	itation
Rema	arks	: May cause	e skin irritation in susceptible persons.
<u>Produ</u> Rema		: Product du system.	ust may be irritating to eyes, skin and respiratory
Com	oonents:		
diben	zoyl peroxide:		
Speci		: Rabbit	
Resul	t	: Irritation to	o eyes, reversing within 7 days
dicyc	lohexyl phthalate:		
Resul	t	: No eye irri	tation
Rema	arks	: Product du system.	ust may be irritating to eyes, skin and respiratory
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
May c	ause an allergic skin	reaction.	
Resp	iratory sensitisation	I	
Not cl	assified due to lack o	f data.	

#### Product:

Remarks : Causes sensitisation.

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



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Co	mponents:			
dib	enzoyl peroxide:			
	osure routes	:	Skin contact	
	ecies	:	Mouse	
Res	hod sult	:	Local lymph node May cause sensit	isation by skin contact.
			,	
dic	yclohexyl phthalate:			
	osure routes	:	Skin contact	
Spe	ecies	:	Mouse May cause sensit	isation by skin contact.
		•	·	
Rer	narks	:	Causes sensitisat	tion.
Ge	m cell mutagenicity			
	classified due to lack of d	lata.		
Co	nponents:			
	enzoyl peroxide:			
	notoxicity in vitro		Method: OECD T	est Guideline 471
00		•	Result: negative	
			Method: OECD T	est Guideline 476
			Result: negative	
Go	notoxicity in vivo		Test Type: domin	ant lethal test
06		•	Species: Mouse	
			Result: negative	
مالم				
	yclohexyl phthalate: notoxicity in vitro		Result: negative	
00		•	5	tests did not show mutagenic effects
Co	actovicity in vivo		Remarks: No data	a available
Gei	notoxicity in vivo	•	Remarks. NO data	
	m cell mutagenicity- As-	:	Demerke: Deced	an hormonical classification in EU regulation
ses	sment		1272/2008, Anne	on harmonised classification in EU regulation x VI
	cinogenicity			
Not	classified due to lack of d	lata.		
<u>Co</u>	nponents:			
dib	enzoyl peroxide:			
Rer	narks	:	This information i	s not available.

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



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<b>dicyc</b> Rema	l <b>ohexyl phthalate:</b> arks	:	This information i	is not available.
Carci ment	Carcinogenicity - Assess- : ment		Remarks: Based 1272/2008, Anne	on harmonised classification in EU regulati x VI
-	oductive toxicity damage the unborn child			
<u>Com</u>	oonents:			
	<b>azoyl peroxide:</b> is on fertility	:		
Repro sessr	oductive toxicity - As- nent	:		dverse effects on sexual function and fertili nt, based on animal experiments.
dicyc	lohexyl phthalate:			
Repro sessr	oductive toxicity - As- nent	:	animal experime	on harmonised classification in EU regulation
	- single exposure assified due to lack of da	ata.		
Com	oonents:			
Expo	azoyl peroxide: sure routes ssment	:	Ingestion The substance of organ toxicant, si	r mixture is not classified as specific target ngle exposure.
	- repeated exposure assified due to lack of da	ata.		
Com	oonents:			
	<b>izoyl peroxide:</b> sure routes	:	Ingestion	
			18 / 28	

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Asse	ssment	:		or mixture is not classified as specific target repeated exposure.
Repe	eated dose toxicity			
Com	ponents:			
diber	nzoyl peroxide:			
Spec		:	Rat	
NOA	EL cation Route	:	1.000 mg/kg Oral	
	sure time	:	28 d	
Metho		:	OECD Test Gu	ideline 422
dicyc	clohexyl phthalate:			
Speci		:	Rat	
NOA	EL cation Route		50 mg/kg Ingestion	
	sure time	:	90 d	
Metho		:	OECD Test Gu	ideline 408
Aspi	ration toxicity			
Not c	lassified due to lack of	data.		
Com	ponents:			
00111				
diber	nzoyl peroxide:	icatio	n	
diber		icatio	n	
diber No as	nzoyl peroxide:		n	
diber No as .2 Infor	nzoyl peroxide: spiration toxicity classif	rds		
diber No as .2 Infor	nzoyl peroxide: spiration toxicity classif mation on other haza ocrine disrupting prop	rds		
diber No as .2 Infor Endo <u>Prod</u>	nzoyl peroxide: spiration toxicity classif mation on other haza ocrine disrupting prop	rds	s This substance have endocrine according to RI	/mixture contains components considered to disrupting properties affecting human health, EACH Article 57(f), Commission Regulation or Commission Delegated Regulation (EU)
diber No as .2 Infor Endo <u>Prod</u> Asses	nzoyl peroxide: spiration toxicity classif mation on other haza ocrine disrupting prop uct:	rds	s This substance have endocrine according to RI (EU) 2018/605	disrupting properties affecting human health, EACH Article 57(f), Commission Regulation
diber No as .2 Infor Endo <u>Prod</u> Asses	nzoyl peroxide: spiration toxicity classif mation on other haza ocrine disrupting prop uct: ssment	rds	s This substance have endocrine according to RI (EU) 2018/605	disrupting properties affecting human health, EACH Article 57(f), Commission Regulation

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Product:		<b>N 1 2 1 1</b>
Remarks	:	No data available
CTION 12: Ecological inform	ma	tion
Toxicity		
Components:		
dibenzoyl peroxide:		
Toxicity to fish	:	EC50 (Oncorhynchus mykiss (rainbow trout)): 0,06 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,11 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 0,07 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0,02 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- icity)	:	10
Toxicity to microorganisms	:	EC50 (Bacteria): 35 mg/l Exposure time: 30 min Method: OECD Test Guideline 209
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	EC10: 0,001 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	10

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C	Chronic	c aquatic toxicity	:	Very toxic to aqu	atic life with long lasting effects.
c	dicyclo	ohexyl phthalate:			
Г	Toxicity	<i>r</i> to fish	:	Exposure time: 9	atipes (Orange-red killifish)): > 2 mg/l 96 h kicity at the limit of solubility
		/ to daphnia and other invertebrates	:	Exposure time: 4	magna (Water flea)): > 2 mg/l 48 h cicity at the limit of solubility
	Toxicity plants	/ to algae/aquatic	:	mg/I Exposure time: 7 Test Type: Grow Method: OECD	
F	Toxicity	/ to microorganisms	:	NOEC : > 100 m Exposure time: 3 Test Type: Resp Method: OECD	h
a		/ to daphnia and other invertebrates (Chron- ity)			
E	Ecotox	cicology Assessment			
C	Chronic	c aquatic toxicity	:	Toxic to aquatic	life with long lasting effects.
12.2 I	Persis	tence and degradabil	ity		
<u>(</u>	Compo	onents:			
c	dibenz	oyl peroxide:			
E	Biodeg	radability	:	Result: Biodegra	idable Test Guideline 301D
	•	<b>bhexyl phthalate:</b> radability	:	Result: Readily b	biodegradable.
12.3 I	Bioaco	cumulative potential			
<u>c</u>	Compo	onents:			
		oyl peroxide: n coefficient: n-	:	log Pow: 3,2 (20	°C)

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#### octanol/water

#### dicyclohexyl phthalate:

Partition coefficient: n- : log Pow: 4,82 (25 °C) octanol/water

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

#### Product:

110000		
Assessment	:	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 properties**

#### Product:

Assessment	<ul> <li>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.</li> </ul>

#### 12.7 Other adverse effects

Product:

Additional ecological infor-	:	An environmental hazard cannot be excluded in the event of
mation		unprofessional handling or disposal.
		Very toxic to aquatic life with long lasting effects.

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

#### 13.1 Waste treatment methods

Product

 Dispose of wastes in an approved waste disposal facility. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.
 According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Conta	iminated packaging	Clean contained Dispose of cont plant. Empty remainin Dispose of as u Do not re-use e	tents/ container to an approved waste disposal ng contents.

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

#### 14.1 UN number or ID number ADN : UN 3106 ADR : UN 3106 RID UN 3106 : IMDG UN 3106 : ΙΑΤΑ UN 3106 : 14.2 UN proper shipping name ORGANIC PEROXIDE TYPE D, SOLID ADN : (DIBENZOYL PEROXIDE) ADR ORGANIC PEROXIDE TYPE D, SOLID 5 (DIBENZOYL PEROXIDE) RID ORGANIC PEROXIDE TYPE D, SOLID : (DIBENZOYL PEROXIDE) IMDG ORGANIC PEROXIDE TYPE D, SOLID : (DIBENZOYL PEROXIDE) Organic peroxide type D, solid ΙΑΤΑ : (Dibenzoyl peroxide) 14.3 Transport hazard class(es) Class Subsidiary risks ADN 5.2 2 ADR : 5.2 RID 5.2 : IMDG : 5.2 ΙΑΤΑ 5.2 HEAT : 14.4 Packing group ADN Not assigned by regulation Packing group :

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Cla	ssification Code	:	P1	
Lab	els	:	5.2	
Cla: Lab	king group ssification Code	::	Not assigned b P1 5.2 (D)	y regulation
Cla	king group ssification Code zard Identification Number	:	Not assigned b P1 539 5.2	y regulation
Lab	king group	::	Not assigned b 5.2 F-J, S-R	y regulation
Pac airc	A (Cargo) king instruction (cargo raft) king group els	:	570 Not assigned b Organic Peroxid	y regulation des, Keep Away From Heat
Pac ger	A (Passenger) king instruction (passen- aircraft) king group els	:	570 Not assigned b Organic Peroxid	y regulation des, Keep Away From Heat
14.5 Env	vironmental hazards			
<b>AD</b> Env	<b>N</b> vironmentally hazardous	:	yes	
<b>AD</b> Env	<b>R</b> rironmentally hazardous	:	yes	
<b>RID</b> Env	) rironmentally hazardous	:	yes	
<b>IME</b> Mai	<b>)G</b> rine 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.



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### **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: If you intend to use this product as tattoo ink, please contact your vendor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: dicyclohexyl phthalate
Regulation (EC) on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: 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	ENVIRONMENTAL HAZARDS
Water hazard class (Germa- : WGK 2 obviously haz ny) Classification accordi	ardous to water ng to AwSV, Annex 1 (5.2)

#### Other regulations:

Gefahrgruppe nach TRGS 741: II (German regulatory requirements)

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



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Protection Act - MuSchG).

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

#### The components of this product are reported in the following inventories: TCSI (TW) On the inventory, or in compliance with the inventory : TSCA (US) : All substances listed as active on the TSCA inventory AIIC (AU) : On the inventory, or in compliance with the inventory DSL (CA) All components of this product are on the Canadian DSL : ENCS (JP) On the inventory, or in compliance with the inventory : ISHL (JP) On the inventory, or in compliance with the inventory : PICCS (PH) On the inventory, or in compliance with the inventory : IECSC (CN) On the inventory, or in compliance with the inventory 1 TECI (TH) 1 On the inventory, or in compliance with the inventory

#### 15.2 Chemical safety assessment

This information is not available.

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

#### Full text of H-Statements

H241 H317 H319 H360D H400 H410 H411	:	Heating may cause a fire or explosion. May cause an allergic skin reaction. Causes serious eye irritation. May damage the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.	
Full text of other abbreviations			
Aquatic Acute Aquatic Chronic Eye Irrit. Org. Perox. Repr. Skin Sens. DE DFG MAK DE TRGS 900 DE DFG MAK / MAK	:	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Eye irritation Organic peroxides Reproductive toxicity Skin sensitisation Germany. MAK BAT Annex IIa Germany. TRGS 900 - Occupational exposure limit values. MAK value	



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:

#### DE TRGS 900 / AGW

Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -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

Other information	:	This safety datasheet only contains information relating to safety and does not replace any product information or prod- uct specification. These safety instructions also apply to empty packaging which may still contain product residues. The hazards on the label also apply to residues in the con- tainer.
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
Classification of the mixtur	re:	Classification procedure:
Org. Perox. D	H2	42 Based on product data or assessment

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Eye Ir	rit. 2	H319	Calculation method	
Skin S	Sens. 1	H317	Calculation method	
Repr.	1B	H360D	Calculation method	
Aquat	ic Acute 1	H400	Calculation method	
Aquat	ic Chronic 1	H410	Calculation method	

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

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