

# **BENOX<sup>®</sup>C-50S**

Version	Revision Date:	SDS Number:	Date of last issue: 23.07.2024
2.0	25.10.2024	60000000301	Date of first issue: 28.11.2022

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

Trade name : BENOX®C-50S

#### 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**

+44 1235 239670

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

#### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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.



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#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :		
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 :	Prevention	:
	P201 P210	Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P234	Keep only in original packaging.
	P273 P280	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye
	F20U	protection/ face protection/ hearing protection.
	Response:	
	P308 + P31	3 IF exposed or concerned: Get medical advice/
	P370 + P37	
	P391	Collect spillage.

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.

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

#### 3.2 Mixtures



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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	:	Take off contaminated clothing and shoes immediately. Call a physician immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
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- served. If breathed in, move person into fresh air. If not breathing, give artificial respiration. If unconscious, place in recovery position and seek medical

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		advice. If symptoms	persist, call a physician.			
In case of skin contact		In case of co for at least 1 and shoes. Wash conta If on skin, rii	If symptoms persist, call a physician. 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 cas	se of eye contact	of water and Remove cor Protect unha Keep eye w	of contact with eyes, rinse immediately with plenty I seek medical advice. Intact lenses. armed eye. ide open while rinsing. on persists, consult a specialist.			
lf swa	allowed	Keep respira	cian immediately. atory tract clear. persist, call a physician.			
4.2 Most i	4.2 Most important symptoms and effects, both acute and delayed					
Symp	otoms	: sensitising e	offects			
Risks		Causes seri	an allergic skin reaction. ous eye irritation. e the unborn child.			
4.3 Indica	4.3 Indication of any immediate medical attention and special treatment needed					
Treat	ment	: Treat sympt	omatically 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
5.2 Special hazards arising from th	e substance or mixture

Specific hazards during fire-	:	Risk of explosion if heated under confinement.
fighting		Possible emission of gaseous decomposition products may

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				Avoid confinemen Contact with incor tures exceeding S composition react may auto-ignite. The product burns Flash back possib Do not allow run-o courses. Vapours may form The product will fle water.	npatible materials or exposure to tempera- ADT may result in a self-accelerating de- on with release of flammable vapors which
5.3	Advice	for firefighters			
	Special for firef	l protective equipment ighters	:		ed breathing apparatus for firefighting if nec- nal protective equipment.
	Specific ods	c extinguishing meth-	:	fire. Remove undamag so.	water stream as it may scatter and spread ged containers from fire area if it is safe to do o cool unopened containers.
	Further	information	:	cumstances and t Use a water spray Collect contamina must not be disch Fire residues and	measures that are appropriate to local cir- ne surrounding environment. to cool fully closed containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.

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

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

Personal precautions	<ul> <li>Follow safe handling advice and personal protective equipment recommendations.</li> <li>Use personal protective equipment.</li> <li>Avoid dust formation.</li> <li>Avoid breathing dust.</li> <li>Remove all sources of ignition.</li> <li>Never return spills in original containers for re-use.</li> <li>Treat recovered material as described in the section "Disposal considerations".</li> </ul>
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#### **6.2 Environmental precautions**

Environmental precautions

: Prevent product from entering drains.

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			er leakage or spillage if safe to do so. contaminates rivers and lakes or drains inform horities.
6.3 Metho	ds and material for c	ontainment and cle	aning up
Methods for cleaning up :		tion at or belo Clear spills im Suppress (kno spray jet. To clean the f al, use plenty Soak up with i Isolate waste Non-sparking Local or nation posal of this m employed in th	mediately. ock down) gases/vapours/mists with a water loor and all objects contaminated by this materi-

#### 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	:	<ul> <li>Open drum carefully as content may be under pressure.</li> <li>Avoid formation of respirable particles.</li> <li>Protect from contamination.</li> <li>Do not breathe vapours/dust.</li> <li>Avoid exposure - obtain special instructions before use.</li> <li>Avoid contact with skin and eyes.</li> <li>Take precautionary measures against static discharges.</li> <li>Never return any product to the container from which it was originally removed.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms.</li> <li>Avoid confinement.</li> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Wash thoroughly after handling.</li> <li>For personal protection see section 8.</li> <li>Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being</li> </ul>

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				used.	
		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 rces of ignition. Use only explosion-proof away from open flames, hot surfaces and . Keep away from combustible material. on. Provide appropriate exhaust ventilation ust is formed.
	Hygien	e measures	:	food and drink. W	skin, eyes and clothing. Keep away from hen using do not eat or drink. When using sh hands before breaks and immediately product.
7.2	Conditio	ons for safe storage, i	incl	uding any incomp	atibilities
		ements for storage and containers	:	cool, well-ventilated ventilated place. O sure increases - o 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 ichnological safety standards. Containers must be carefully resealed and kept upright e.
	Advice	on common storage	:		combustible materials. trong acids, bases, heavy metal salts and ostances.
	Recom peratur	mended storage tem- e	:	< 30 °C	
	Further age sta	information on stor- bility	:	Stable under reco	mmended storage conditions.
7.3	Specific	end use(s)			
-	•	c use(s)	:	For further information sheet.	ation, refer to the product technical data

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

#### 8.1 Control parameters

#### Occupational Exposure Limits dust of any kind 10 mg/m3 Value type (Form of exposure): TWA (Inhalable)

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Basis: GB EH40

4 mg/m3 Value type (Form of exposure): TWA (Respirable fraction) Basis: GB EH40

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
dibenzoyl peroxide	94-36-0	TWA	5 mg/m3	GB EH40
dicyclohexyl phthalate	84-61-7	TWA	5 mg/m3	GB EH40

#### **Derived No Effect Level (DNEL):**

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):**

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 weight (d.w.)
	Soil	0.003 mg/kg dry

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		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 workpla tratic

Minimize workplace exposure concentrations.						
Personal protective equipn	Personal protective equipment					
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.				
Hand protection Material Break through time Glove thickness	:	butyl-rubber 480 min 0.47 mm				
Material Break through time Glove thickness	:	Nitrile rubber 480 min 0.40 mm				
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.				
Skin and body protection	:	Select appropriate protective clothing based on chemical re- sistance data and an assessment of the local exposure poten- tial. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable				

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			Wear as appropr	posed skin surfaces. iate: antistatic protective clothing.
Respiratory protection		:	In the case of du approved filter.	st or aerosol formation use respirator with an
Filter type		:	Filter type P	
Protective measures		:		ctive equipment must be selected according ion and amount of the dangerous substance orkplace.

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

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

Appearance	:	powder
Colour	:	white
Odour	:	aromatic
Odour Threshold	:	No data available
		No data available
рН	:	No data available substance/mixture is non-soluble (in water)
Melting point/ range	:	Decomposition: Decomposes below the melting point.
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
		Not applicable
Flammability (solid, gas)	:	Not applicable
		Organic peroxide
Upper explosion limit / Upper flammability limit	:	No data available
		Upper explosion limit No data available

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	er explosion limit / Lower nability limit	:	No data available	9
			Lower explosion No data available	
Vapo	ur pressure	:	No data available	
			No data available	9
Relat	ive vapour density	:	not determined	
Relat	ive density	:	not determined	
Dens	ity	:	No data available	9
			No data available	9
Bulk	density	:	620 kg/m3	
	bility(ies) /ater solubility	:	insoluble	
So	olubility in other solvents	:	No data available	9
	ion coefficient: n- ol/water	:	Not applicable	
Auto-	ignition temperature	:	not determined	
Visco Vi	osity scosity, dynamic	:	Not applicable	
			Not applicable	
Vi	scosity, kinematic	:	Not applicable	
			Not applicable	
Explo	osive properties	:	Not explosive	
			Not explosive Avoid dust forma	tion.
Oxidi	zing properties	:	The substance o Organic peroxide	r mixture is not classified as oxidizing.
9.2 Other	information			
Self-A	Accelerating decomposi- emperature (SADT)	:	60 °C Method: UN-Test	t H.4

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			temperature at w	lerating Decomposition Temperature. Lowest /hich the tested package size will undergo a decomposition reaction.
Sel	f-heating substances	:	The substance c	r mixture is not classified as self heating.
Particle size		:	not determined	
Par	Particle Size Distribution		No data available	e
Sel	f-ignition	:	The substance of	r mixture is not classified as pyrophoric.

#### **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.

#### 10.4 Conditions to avoid

Conditions to avoid

Protect from contamination.
 Contact with incompatible substances can cause decomposition at or below SADT.
 Heat, flames and sparks.
 Avoid confinement.

#### **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

11.1 Information on toxicological effects

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SECTION 11: Toxicological information						

# 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 inhalation 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 toxicity

 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.

#### Product:

Remarks : May cause skin irritation in susceptible persons.

#### Components:

#### dibenzoyl peroxide:

Species	: Rabbit
Exposure time	: 4 h
Method	: OECD Test Guideline 404
Result	: No skin irritation



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dicyc	lohexyl phthalate:					
Result		: No skin irritation				
Rema	rks	: May cause skin irritation in susceptible persons.				
Serio	us eye damage/eye	rritation				
Cause	es serious eye irritatio	n.				
<u>Produ</u>						
Remarks		: Product dust may be irritating to eyes, skin and respiratory system.				
<u>Comp</u>	onents:					
diben	zoyl peroxide:					
Specie		: Rabbit				
Result	t	: Irritation to eyes, reversing within 7 days				
-	lohexyl phthalate:					
Result	t	: No eye irritation				
Rema	rks	: Product dust may be irritating to eyes, skin and respira system.				
Respi	ratory or skin sensi	tisation				
-	ratory or skin sensi sensitisation	tisation				
Skin s	-					
<b>Skin s</b> May c	sensitisation					
Skin s May c Respi	sensitisation ause an allergic skin	reaction.				
Skin s May c Respi	sensitisation ause an allergic skin ratory sensitisation assified due to lack of	reaction.				
<b>Skin s</b> May c <b>Respi</b> Not cla	sensitisation ause an allergic skin ratory sensitisation assified due to lack of act:	reaction.				
Skin s May c Respi Not cla <u>Produ</u> Rema	sensitisation ause an allergic skin ratory sensitisation assified due to lack of act:	reaction. <sup>-</sup> data.				
Skin s May c Respi Not cla <u>Produ</u> Rema	sensitisation ause an allergic skin ratory sensitisation assified due to lack of <u>act:</u> rks	reaction. <sup>-</sup> data.				
Skin s May c Respi Not cla Produ Rema Comp diben Expos	sensitisation ause an allergic skin ratory sensitisation assified due to lack of act: rks conents: zoyl peroxide: ure routes	reaction. data. : Causes sensitisation. : Skin contact				
Skin s May c Respi Not cla Produ Rema Comp diben Expos Specie	sensitisation ause an allergic skin ratory sensitisation assified due to lack of act: rks conents: zoyl peroxide: sure routes	reaction. <sup>-</sup> data. : Causes sensitisation. : Skin contact : Mouse				
Skin s May c Respi Not cla Produ Rema Comp diben Expos	sensitisation ause an allergic skin ratory sensitisation assified due to lack of act: rks conents: zoyl peroxide: aure routes es	reaction. data. : Causes sensitisation. : Skin contact				
Skin s May c Respi Not cla Produ Rema Comp diben Expos Specie Metho Result	sensitisation ause an allergic skin ratory sensitisation assified due to lack of act: rks conents: zoyl peroxide: aure routes es	reaction. <sup>1</sup> data. : Causes sensitisation. : Skin contact : Mouse : Local lymph node assay (LLNA)				
Skin s May c Respi Not cla Produ Rema Comp diben Expos Specia Metho Result	sensitisation ause an allergic skin ratory sensitisation assified due to lack of <u>act:</u> rks conents: zoyl peroxide: aure routes es id t	reaction. <sup>1</sup> data. : Causes sensitisation. : Skin contact : Mouse : Local lymph node assay (LLNA)				

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Resu	lt	:	May cause sen	sitisation by skin contact.
Remarks		:	Causes sensitie	sation.
	a <b>cell mutagenicity</b> lassified due to lack of c	data.		
<u>Com</u>	oonents:			
	<b>nzoyl peroxide:</b> toxicity in vitro	:	Method: OECD Result: negativ	Test Guideline 471 e
			Method: OECD Result: negativ	Test Guideline 476 e
Geno	toxicity in vivo	:	Test Type: dom Species: Mouse Result: negativ	e
dicyc	lohexyl phthalate:			
Geno	toxicity in vitro	:	Result: negativ Remarks: In vit	e ro tests did not show mutagenic effects
Geno	toxicity in vivo	:	Remarks: No d	ata available
Germ sessr	cell mutagenicity- As- nent	:	Remarks: Base 1272/2008, Ani	d on harmonised classification in EU regulat nex VI
	nogenicity lassified due to lack of c	data.		
Com	oonents:			
<b>diber</b> Rema	n <b>zoyl peroxide:</b> arks	:	This information	n is not available.
<b>dicyc</b> Rema	elohexyl phthalate: arks	:	This information	n is not available.
Carci ment	nogenicity - Assess-	:	Remarks: Base 1272/2008, Ani	d on harmonised classification in EU regulat nex VI

May damage the unborn child.

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dibe Effect Repr sess dicy Repr sess STO Not of STO Asse STO	aponents: anzoyl peroxide: cts on fertility roductive toxicity - As- ment clohexyl phthalate: roductive toxicity - As- ment of - single exposure classified due to lack of contents:	: : data.	Application Rout General Toxicity Method: OECD Species: Rat, fer Application Rout General Toxicity Method: OECD No evidence of a or on developme Clear evidence of animal experime Remarks: Based 1272/2008, Anne	te: Oral - Parent: NOAEL: 1,000 mg/kg body weight Test Guideline 422 male te: Oral - Parent: NOAEL: 500 mg/kg body weight Test Guideline 422 adverse effects on sexual function and fertility ent, based on animal experiments. of adverse effects on development, based on ents. d on harmonised classification in EU regulation
Effect Repr sess dicy Repr sess STO Not of Asse STO Not of	roductive toxicity - As- ment clohexyl phthalate: roductive toxicity - As- ment T - single exposure classified due to lack of c	:	Application Rout General Toxicity Method: OECD Species: Rat, fer Application Rout General Toxicity Method: OECD No evidence of a or on developme Clear evidence of animal experime Remarks: Based 1272/2008, Anne	te: Oral - Parent: NOAEL: 1,000 mg/kg body weight Test Guideline 422 male te: Oral - Parent: NOAEL: 500 mg/kg body weight Test Guideline 422 adverse effects on sexual function and fertilit ent, based on animal experiments. of adverse effects on development, based on ents. d on harmonised classification in EU regulation
Effect Repr sess dicy Repr sess STO Not of Asse STO Not of	roductive toxicity - As- ment clohexyl phthalate: roductive toxicity - As- ment T - single exposure classified due to lack of c	:	Application Rout General Toxicity Method: OECD Species: Rat, fer Application Rout General Toxicity Method: OECD No evidence of a or on developme Clear evidence of animal experime Remarks: Based 1272/2008, Anne	te: Oral - Parent: NOAEL: 1,000 mg/kg body weight Test Guideline 422 male te: Oral - Parent: NOAEL: 500 mg/kg body weight Test Guideline 422 adverse effects on sexual function and fertility ent, based on animal experiments. of adverse effects on development, based on ents. d on harmonised classification in EU regulation
sess dicy Repr sess STO Not of Asse STO Not of	clohexyl phthalate: roductive toxicity - As- ment T - single exposure classified due to lack of c	: : data.	Application Rout General Toxicity Method: OECD No evidence of a or on developme Clear evidence of animal experime Remarks: Based 1272/2008, Anno	te: Oral - Parent: NOAEL: 500 mg/kg body weight Test Guideline 422 adverse effects on sexual function and fertilit ent, based on animal experiments. of adverse effects on development, based or ents. d on harmonised classification in EU regulation
sess dicy Repr sess STO Not of Asse STO Not of	clohexyl phthalate: roductive toxicity - As- ment T - single exposure classified due to lack of c	: : data.	or on developme Clear evidence o animal experime Remarks: Baseo 1272/2008, Anno	ent, based on animal experiments. of adverse effects on development, based or ents. d on harmonised classification in EU regulatio
Repr sess STO Not of Com dibe Expo Asse STO Not of	roductive toxicity - As- ment <b>T - single exposure</b> classified due to lack of c	: data.	animal experime Remarks: Basec 1272/2008, Anno	ents. I on harmonised classification in EU regulation
Repr sess STO Not of Com dibe Expo Asse STO Not of	roductive toxicity - As- ment <b>T - single exposure</b> classified due to lack of c	: data.	animal experime Remarks: Basec 1272/2008, Anno	ents. I on harmonised classification in EU regulation
Not of Com dibe Expo Asse STO Not of	classified due to lack of c	data.		
dibe Expo Asse STO Not o	<u>iponents:</u>			
Expo Asse <b>STO</b> Not o				
Asse STO Not o	enzoyl peroxide:			
Not o	osure routes essment	:	Ingestion The substance c organ toxicant, s	or mixture is not classified as specific target single exposure.
<u>Com</u>	T - repeated exposure classified due to lack of c			
	<u>iponents:</u>			
dibe	nzoyl peroxide:			
	osure routes essment	:		or mixture is not classified as specific target epeated exposure.
Repe	eated dose toxicity			
Com	<u>iponents:</u>			
dibe	nzoyl peroxide:			
Spec NOA	cies	:	Rat 1,000 mg/kg	

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E		ation Route ure time d	:	Oral 28 d OECD Test Gu	deline 422				
d	licvclo	ohexyl phthalate:							
S N A E	Specie NOAEI Applica	s - ation Route ure time		Rat 50 mg/kg Ingestion 90 d OECD Test Gu	deline 408				
Δ	Aspiration toxicity								
	Not classified due to lack of data.								
С	Components:								
	dibenzoyl peroxide: No aspiration toxicity classification								
F	Further information								
	<b>Produ</b> Remar		:	No data availab	le				
SECT	SECTION 12: Ecological information								
-									
12.1 T	Foxici	ty							
<u>C</u>	Compo	onents:							
d	libenz	oyl peroxide:							
		y to fish	:	Exposure time:	nchus mykiss (rainbow trout)): 0.06 mg/l 96 h 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)): 0.071 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

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Vers 2.0	sion	Revision Date: 25.10.2024	-	0S Number: 0000000301	Date of last issue: 23.07.2024 Date of first issue: 28.11.2022
	M-Facto icity)	or (Acute aquatic tox-	:	10	
	Toxicity	to microorganisms	:	EC50 (Bacteria): 3 Exposure time: 30 Method: OECD Te	) min
		to daphnia and other invertebrates (Chron- ty)	:	EC10: 0.001 mg/l Exposure time: 21 Species: Daphnia Test Type: semi-s Method: OECD Te	magna (Water flea) tatic test
	M-Facto toxicity)	or (Chronic aquatic	:	10	
		icology Assessment	:	Very toxic to aqua	tic life.
	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
	<b>dicyclo</b> Toxicity	<b>hexyl phthalate:</b> to fish	:	Exposure time: 96	pes (Orange-red killifish)): > 2 mg/l 5 h city at the limit of solubility
		to daphnia and other invertebrates	:	Exposure time: 48	nagna (Water flea)): > 2 mg/l 3 h city at the limit of solubility
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Test Type: Growth Method: OECD To	n inhibition
	Toxicity	to microorganisms	:	NOEC : > 100 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.181 mg/ Exposure time: 21 Species: Daphnia Method: OECD Te	d magna (Water flea)



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	oxicology Assessmen nic aquatic toxicity		uatic life with long lasting effects.
	istence and degradabi		
	ponents:	inty	
diber	n <b>zoyl peroxide:</b> egradability	: Result: Biod Method: OE	legradable CD Test Guideline 301D
-	clohexyl phthalate: egradability	: Result: Rea	dily biodegradable.
12.3 Bioa	ccumulative potential		
Com	ponents:		
Partit	nzoyl peroxide: ion coefficient: n- nol/water	: log Pow: 3.	2 (20 °C)
Partit	<b>clohexyl phthalate:</b> ion coefficient: n- ool/water	: log Pow: 4.	32 (25 °C)
	i <b>lity in soil</b> ata available		
12.5 Resu	ılts of PBT and vPvB a	ssessment	
Prod Asse	<u>uct:</u> 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 Othe	r adverse effects		
<mark>Prod</mark> Endo tial	uct: crine disrupting poten-	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 % or higher.
Addit	ional ecological infor-	: An environr	nental hazard cannot be excluded in the event of



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mation			handling or disposal. Juatic life with long lasting effects.
SECTION	13: Disposal cons	iderations	
13.1 Waste	e treatment methods		
Produ	ct	The product sh courses or the	nate ponds, waterways or ditches with chemi-
Contaminated packaging		Clean containe Dispose of con plant. Empty remainir Dispose of as u Do not re-use e	tents/ container to an approved waste disposal

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

#### 14.1 UN number

ADR:UN 3106RID:UN 3106IMDG:UN 3106IATA:UN 310614.2 UN proper shipping nameVADR:ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)RID:ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)IMDG:ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)IMDG:ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)IATA:ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)14.3 Transport hazard class(es)ClassSubsidiary risksADR::SL					
IMDG:UN 3106IATA:UN 310614.2 UN proper shipping name.ADR:ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)RID:ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)IMDG:ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)IMDG:ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)IATA:ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)14.3 Transport hazard class(es)ClassSubsidiary risks		ADR	:	UN 3106	
IATA : UN 3106 14.2 UN proper shipping name ADR : ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE) RID : ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE) IMDG : ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE) IATA : ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE) IATA : Organic peroxide type D, solid (Dibenzoyl peroxide)		RID	:	UN 3106	
14.2 UN proper shipping name       ADR       :       ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         RID       :       ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         IMDG       :       ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         IATA       :       ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         IATA       :       ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         IATA       :       Organic peroxide type D, solid (Dibenzoyl peroxide)         14.3 Transport hazard class(es)       Class       Subsidiary risks		IMDG	:	UN 3106	
ADR       :       ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         RID       :       ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         IMDG       :       ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         IATA       :       Organic peroxide type D, solid (Dibenzoyl peroxide)         14.3 Transport hazard class(es)       Class       Subsidiary risks		ΙΑΤΑ	:	UN 3106	
RID       : ORGANIC PEROXIDE)         RID       : ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         IMDG       : ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         IATA       : ORGANIC PEROXIDE)         IATA       : Organic peroxide type D, solid (Dibenzoyl peroxide)         14.3 Transport hazard class(es)       Class       Subsidiary risks	14.2	2 UN proper shipping name			
IMDG       (DIBENZOYL PEROXIDE)         IMDG       :       ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)         IATA       :       Organic peroxide type D, solid (Dibenzoyl peroxide)         14.3 Transport hazard class(es)       Class       Subsidiary risks		ADR	:		-
IATA (DIBENZOYL PEROXIDE) IATA : Organic peroxide type D, solid (Dibenzoyl peroxide) 14.3 Transport hazard class(es) Class Subsidiary risks		RID	:		,
(Dibenzoyl peroxide) 14.3 Transport hazard class(es) Class Subsidiary risks		IMDG	:		,
Class Subsidiary risks		ΙΑΤΑ	:	<b>e</b> 1 <i>1</i>	D, solid
	14.3	3 Transport hazard class(es)			
ADR : 5.2				Class	Subsidiary risks
		ADR	:	5.2	

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RID		:	5.2		
IMDG	i	:			
IATA		-	5.2	НЕАТ	
	ing group	•	5.2		
ADR Packing group Classification Code Labels Tunnel restriction code		:	Not assigned by P1 5.2 (D)	regulation	
<b>RID</b> Packing group Classification Code Hazard Identification Number Labels			<ul> <li>Not assigned by regulation</li> <li>P1</li> <li>539</li> <li>5.2</li> </ul>		
IMDG Packin Labels EmS	ng group s	:	Not assigned by 5.2 F-J, S-R	regulation	
Packi aircra	ng group	:	570 Not assigned by Organic Peroxid	regulation es, Keep Away From Heat	
Packi ger ai Packi	ng group	:	570 Not assigned by		
Label: 14 5 Envir	s onmental hazards	-	Organic Peroxid	es, Keep Away From Heat	
ADR					
	onmentally hazardous	:	yes		
<b>RID</b> Enviro	onmentally hazardous	:	yes		
<b>IMDG</b> Marin	e pollutant	: yes			
14.6 Spec	ial precautions for use	r			
The tr based	ansport classification(s) I upon the properties of t	pro the	unpackaged mate	or informational purposes only, and solely erial as it is described within this Safety Data	

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Not applicable
UK REACH Candidate list of substances of very concern (SVHC) for Authorisation	high :	dicyclohexyl phthalate
The Persistent Organic Pollutants Regulations (re Regulation (EU) 2019/1021 as amended for Grea ain)		Not applicable
Regulation (EC) on substances that deplete the c layer	ozone :	Not applicable
UK REACH List of substances subject to authoris (Annex XIV)	sation :	Not applicable
GB Export and import of hazardous chemicals - F Informed Consent (PIC) Regulation	Prior :	Not applicable
Control of Major Accident Hazards Regulations 2015 (COMAH)	AN	LF-REACTIVE SUBSTANCES
	E1 EN	IVIRONMENTAL HAZARDS

#### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

#### 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

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ENCS	S (JP)	: On the	ne inventory, or in compliance with the inventory		
ISHL (JP)		: On the	: On the inventory, or in compliance with the inventory		
PICCS (PH)		: On the	ne inventory, or in compliance with the inventory		
IECS	C (CN)	: On the	ne inventory, or in compliance with the inventory		
TECI	(TH)	: On the	ne 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

H317 : H319 : H360D : H400 :	Very toxic to aquatic life.
	Very toxic to aquatic life with long lasting effects.
H411 :	Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Irrit.	:	Eye irritation
Org. Perox.	:	Organic peroxides
Repr.	:	Reproductive toxicity
Skin Sens.	:	Skin sensitisation
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

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



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- 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very Bioaccumulative

#### Further information

safety and do uct specificati These safety may still conta	atasheet only contains information relating to es not replace any product information or prod- ion. instructions also apply to empty packaging which ain product residues. on the label also apply to residues in the con-
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Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data Sheet		eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
eneer		ey, mp., contaiou opaiou,

Classification of the mixture:		Classification procedure:
Org. Perox. D	H242	Based on product data or assessment
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 1B	H360D	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific



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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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