according to GB/T 16483 and GB/T 17519



BENOX[®]C-50S

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	BENOX®C-50S
Chemical nature	:	Organic Peroxide Solid mixture

Manufacturer or supplier's details

Company	:	United Initiators (Shanghai) Co., Ltd				
Address	:	Room 501, Bldg. 1, No. 1 Shangda Road Shanghai, China, 200444				
Telephone	:	+86 21 61172758				
Emergency telephone number	:	+86 21 61172758				
E-mail address	:	cs-initiators.cn@united-in.com				
Recommended use of the chemical and restrictions on use						

Recommended use : Curing chemical

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	powder white aromatic
		use an allergic skin reaction. Causes eye irritation. May damage atic life with long lasting effects.
GHS Classification		
Organic peroxides	:	Туре D
Serious eye damage/eye irri- tation	:	Category 2B
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 1B
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

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	label elements rd pictograms		
Signa	I word	: Danger	
Hazar	d statements	H317 May cau H320 Causes H360D May d	may cause a fire. use an allergic skin reaction. eye irritation. amage the unborn child. kic to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not h and understoo P210 Keep av No smoking. P220 Keep/St heavy metal s materials. P234 Keep or P261 Avoid br P264 Wash sl P272 Contami the workplace. P273 Avoid re P280 Wear pr tion/ face proto Response: P302 + P352 P305 + P351 for several min easy to do. Co P308 + P313 attention. P333 + P313 vice/ attention P337 + P313 tention. P362 + P364 reuse. P391 Collect s	 vay from heat/ sparks/ open flames/ hot surfaces. ore away from clothing/ strong acids, bases, salts and other reducing substances /combustible alts and other reducing substances /combustible alt in original container. reathing dust. kin thoroughly after handling. inated work clothing should not be allowed out of . elease to the environment. otective gloves/ protective clothing/ eye protectection. IF ON SKIN: Wash with plenty of water. + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. IF exposed or concerned: Get medical advice/ If skin irritation or rash occurs: Get medical ad- . If eye irritation persists: Get medical advice/ at- Take off contaminated clothing and wash it before

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P410 Protect from sunlight.

P411 + P235 Store at temperatures not exceeding < 30 $^{\circ}$ C/ < 86 $^{\circ}$ F. Keep cool.

P420 Store away from other materials.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Heating may cause a fire.

Health hazards

Causes eye irritation. May cause an allergic skin reaction. May damage the unborn child.

Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
dibenzoyl peroxide	94-36-0	>= 45 -< 50
dicyclohexyl phthalate	84-61-7	>= 45 -< 50

4. FIRST AID MEASURES

General advice	 Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Call a physician immediately.
lf inhaled	 If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. If breathed in, move person into fresh air.
In case of skin contact	 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. If symptoms persist, call a physician.

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In cas	In case of eye contact		of water and seek Remove contact I Protect unharmed Keep eye wide op	enses. eye.
lf swa	llowed	:	Keep respiratory Call a physician i	
	important symptoms ffects, both acute and ed	:	May cause an alle Causes eye irritat May damage the	
Prote	ction of first-aiders	:		ers should pay attention to self-protection nmended protective clothing
Notes	to physician	:	Treat symptomati	cally and supportively.
5. FIREFIC	GHTING MEASURES			
Suital	ole extinguishing media	:	Water spray jet Alcohol-resistant Carbon dioxide (C Dry chemical	
Unsui media	table extinguishing	:	High volume water jet	
	Specific hazards during fire- fighting		tures exceeding S composition react may auto-ignite. The product burns Flash back possit Vapours may form The product will fl water.	mpatible materials or exposure to tempera- SADT may result in a self-accelerating de- tion with release of flammable vapors which s violently. Dele over considerable distance. In explosive mixtures with air. oat on water and can be reignited on surface ainers exposed to fire with water spray.
Speci ods	fic extinguishing meth-	:	must not be disch Fire residues and be disposed of in Use extinguishing cumstances and Do not use a solid fire.	ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations. measures that are appropriate to local cir- the surrounding environment. d water stream as it may scatter and spread ged containers from fire area if it is safe to do

according to GB/T 16483 and GB/T 17519





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		Use water spra	ay to cool unopened containers.
	cial protective equipment refighters	essary.	ained breathing apparatus for firefighting if nec- protective equipment.
6. ACCIE	DENTAL RELEASE MEAS	SURES	
tive	conal precautions, protec- equipment and emer- cy procedures	Avoid dust for Avoid breathin Remove all so	g dust. urces of ignition. ndling advice and personal protective equip-
Envi	ronmental precautions	Prevent further	ct from entering drains. · leakage or spillage if safe to do so. contaminates rivers and lakes or drains inform norities.
Methods and materials for containment and cleaning up		tion at or below Clear spills im Suppress (kno spray jet. To clean the fla al, use plenty of Soak up with in Isolate waste a Non-sparking Local or nation posal of this m employed in th	mediately. ck down) gases/vapours/mists with a water por and all objects contaminated by this materi-
Prev haza	ention of secondary ards		pills in original containers for re-use. d material as described in the section "Disposal ".

7. HANDLING AND STORAGE

Handling		
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Advice on protection against fire and explosion	:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from heat and sources of ignition.

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				n-proof equipment. combustible material.
Ad	Advice on safe handling		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 originally removed. Provide sufficient air exchange and/or exhaust in work of Avoid confinement. Keep away from heat, hot surfaces, sparks, open flame other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in th plication area. Wash thoroughly after handling. For personal protection see section 8. Persons susceptible to skin sensitisation problems or at allergies, chronic or recurrent respiratory disease shoul be employed in any process in which this mixture is bein used. Protect from contamination.	
Av	oidance of contact	:	Accelerators, stro heavy metal salts	ng acids and bases, heavy metals and , reducing agents
Ste	orage			
	nditions for safe storage	:	Electrical installati the technological Containers which kept upright to pre Store in original co Keep containers t	are opened must be carefully resealed and event leakage.
Ma	aterials to avoid	:	Keep away from so	strong acids, bases, heavy metal salts and bstances.
	commended storage tem- rature	:	< 30 °C	
	rther information on stor- e stability	:	No decomposition	if stored normally.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No. Value type Control parame- Basis	Control parame- Basis
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		(Form of exposure)	ters / Permissible concentration		
dibenzoyl peroxide	94-36-0	PC-TWA TWA	5 mg/m3 5 mg/m3	CN OE ACGIH	
Engineering measures	: Minimize wor	kplace exposu	e concentrations.		
Personal protective equip	ment				
Respiratory protection	: In the case of approved filter		I formation use respire	ator with	
Filter type	: Filter type P				
Eye/face protection	Please wear tection if ther Ensure that e	Tightly fitting safety goggles Please wear suitable protective goggles. Also wear face pro- tection if there is a splash hazard. Ensure that eyewash stations and safety showers are close to the workstation location.			
Skin and body protection		Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.			
Hand protection Material Break through time Glove thickness	: butyl-rubber : >= 480 min : 0.5 mm	butyl-rubber >= 480 min			
Break through time Glove thickness	: >= 480 min : 0.2 mm				
Remarks	standard valu material has tive glove. Cl depending of ous substand plications, we cals of the af	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 chemica 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.			
Hygiene measures	When using When using	rom food and d do not eat or dr do not smoke. before breaks		handling	

9. PHYSICAL AND CHEMICAL PROPERTIES

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	Appeara	ance	:	powder	
	Colour		:	white	
	Odour		:	aromatic	
	Odour ⁻	Threshold	:	No data available	
l	pН		:	No data available	
	Melting	point/range	:	Decomposition:	Decomposes below the melting point.
l	Boiling	point/boiling range	:	Not applicable	
	Flash p	oint	:	Not applicable	
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Density		:	No data available	
:	Solubili Wat	ty(ies) er solubility	:	insoluble	
		celerating decomposi- nperature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
,	Viscosi Visc	ty osity, dynamic	:	Not applicable	
	Visc	osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or Organic peroxide	mixture is not classified as oxidizing.

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10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reac- tions	:	Dust may form explosive mixture in air.
Conditions to avoid	:	Protect from contamination. Contact with incompatible substances can cause decomposi- tion at or below SADT. Heat, flames and sparks. Avoid confinement.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
Hazardous decomposition products	:	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

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

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cute d	ermal toxicity	:	Method: OEC	2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
kin co	orrosion/irritation			
ot clas	ssified based on ava	ailable	information.	
		:	May cause sk	in irritation in susceptible persons.
ompo	nents:			
-				
	• •	:	Rabbit	
esult		:	No skin irritati	on
icyclo	hexyl phthalate:			
esult		:	No skin irritati	on
		irritati	on	
		:	Product dust r system.	may be irritating to eyes, skin and respiratory
ompo	nents:			
ibenzo	oyl peroxide:			
	5	:	Rabbit	
esult		:	Irritation to ey	es, reversing within 7 days
icyclo	hexyl phthalate:			
esult		:	No eye irritatio	n
espira	ntory or skin sensi	tisatio	n	
		raaatia		
-	-		PT 1.	
-	-		information.	
roduc	<u>t:</u>			
		:	Causes sensit	isation.
	cute d kin co ot clas coduc emark ompo benze cocies esult cyclo esult coduc esult coduc esult coduc coduc esult coduc esult coduc esult coduc coduc	2022/07/05 cute dermal toxicity kin corrosion/irritation ot classified based on avain roduct: emarks omponents: benzoyl peroxide: benzoyl peroxide: becies esult cyclohexyl phthalate: esult erious eye damage/eye auses eye irritation. roduct: emarks omponents: benzoyl peroxide: benzoyl peroxide: be	2022/07/05 600 cute dermal toxicity : kin corrosion/irritation . ot classified based on available . roduct: . emarks . omponents: . benzoyl peroxide: . occlohexyl phthalate: . esult . erious eye damage/eye irritation. . roduct: . emarks . enous eye damage/eye irritation. . roduct: . emarks . cyclohexyl phthalate: . esult . cyclohexyl peroxide: . omponents: . benzoyl peroxide: . esult . cyclohexyl phthalate: . esult . espiratory or skin sensitisa	2022/07/05 60000000301 cute dermal toxicity : LD50 (Rat): > Method: OEC Assessment: Assessment: toxicity kin corrosion/irritation information. ot classified based on available information. . coduct: . May cause sk emarks : May cause sk obecies : Rabbit esult : No skin irritation cyclohexyl phthalate: . . esult : No skin irritation auses eye irritation. . . coduct: . . emarks : Product dust r system. . . omponents: . . benzoyl peroxide: . . occies : . benzoyl peroxide: . . opecies : . benzoyl peroxide: . . opecies : . opecies : . opecies

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ersion 1	Revision Date: 2022/07/05	-	OS Number: 0000000301	Date of last issue: 2020/02/20 Date of first issue: 2017/08/01
<u>Comp</u>	onents:			
diben	zoyl peroxide:			
	sure routes	:	Skin contact	
Specie	es	:	Mouse	
Metho		:		de assay (LLNA)
Result	[:	May cause sen	sitisation by skin contact.
dicycl	lohexyl phthalate:			
	sure routes	:	Skin contact	
Specie		:	Mouse	
Result	[:	May cause sen	sitisation by skin contact.
	cell mutagenicity			
Not cla	assified based on ava	ilable	information.	
<u>Comp</u>	onents:			
diben	zoyl peroxide:			
Genot	oxicity in vitro	:	Method: OECD Result: negative	Test Guideline 471 e
			Method: OECD Result: negative	Test Guideline 476 e
Genot	oxicity in vivo	:	Test Type: dom Species: Mouse Result: negative	
dicycl	lohexyl phthalate:			
Genot	oxicity in vitro	:		e ro tests did not show mutagenic effec
Genot	oxicity in vivo	:	Remarks: No d	ata available
Carcii	nogenicity			
Not cla	assified based on ava	ilable	information.	
<u>Comp</u>	onents:			
diben	zoyl peroxide:			
Rema	rks	:	This information	n is not available.
dicvcl	lohexyl phthalate:			
Rema		:	This information	n is not available.
	oductive toxicity lamage the unborn ch	ild.		

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/ersion 2.1	Revision Date: 2022/07/05	SDS Number: 600000000301	Date of last issue: 2020/02/20 Date of first issue: 2017/08/01		
<u>Com</u>	ponents:				
diber	nzoyl peroxide:				
Effect	s on fertility				
Repro sessr	oductive toxicity - As- ment		e of adverse effects on sexual function and fertility, pment, based on animal experiments.		
dicyc	lohexyl phthalate:				
Reprosess	oductive toxicity - As- nent	animal expe Remarks: B	 Clear evidence of adverse effects on development, based or animal experiments. Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI 		
STOT - single exposure Not classified based on available information.					
<u>Com</u>	ponents:				
Expo	nzoyl peroxide: sure routes ssment		nce or mixture is not classified as specific target ant, single exposure.		
	- repeated exposure lassified based on avai				
<u>Com</u>	ponents:				
dibeı	nzoyl peroxide:				
Expo	sure routes ssment		nce or mixture is not classified as specific target ant, repeated exposure.		
Repe	ated dose toxicity				
-	ponents:				
-	nzoyl peroxide:				
Spec NOAI	ies	: Rat : 1,000 mg/kg : Oral)		
		12	/ 18		

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Expos Metho	sure time od	:	28 d OECD Test Gu	ideline 422
dicyc	dicyclohexyl phthalate:			
Speci		:	Rat	
NOAE	EL cation Route	:	50 mg/kg Ingestion	
Exposure time		:	90 d	
Metho	bd	:	OECD Test Gu	ideline 408
Aspir	ation toxicity			
Not c	lassified based on availa	ble	information.	
<u>Com</u>	oonents:			
diber	nzoyl peroxide:			
No as	spiration toxicity classific	atio	n	
Furth	er information			
<u>Prod</u>	uct:			
Rema	ırks	:	No data availab	le
	oxicity			
	<u>oonents:</u>			
	nzoyl peroxide:			
TOXIC	ity to fish	:	Exposure time:	nchus mykiss (rainbow trout)): 0.06 mg/l 96 h
				Test Guideline 203
	ity to daphnia and other	:		magna (Water flea)): 0.11 mg/l
aquat	ic invertebrates		Exposure time:	
			Method: OECD	Test Guideline 202
	ity to algae/aquatic	:		kirchneriella subcapitata (green algae)): 0.0
plants	5		mg/I Exposure time:	72 h
				Test Guideline 201
			NOEC (Pseudo	kirchneriella subcapitata (green algae)): 0.
			mg/l	70 h
			Exposure time: Method: OECD	72 h Test Guideline 201
_				
M-Fa	ctor (Acute aquatic tox-	:	10	

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icity) Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) $ECD Test Guideline 211 M-Factor (Chronic aquatic : 10 Toxicity to microorganisms : EC50 (Bacteria): 35 mg/lExposure time: 30 minMethod: OECD Test Guideline 209 Ecotoxicology Assessment Acute aquatic toxicity : Very toxic to aquatic life. Chronic aquatic toxicity : Very toxic to aquatic life. Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects. dicyclohexyl phthalate: Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 2 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l$
aquatic invertebrates (Chron- ic toxicity) Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 M-Factor (Chronic aquatic toxicity) : 10 Toxicity to microorganisms : EC50 (Bacteria): 35 mg/l Exposure time: 30 min Method: OECD Test Guideline 209 Ecotoxicology Assessment Acute aquatic toxicity : Very toxic to aquatic life. Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects. dicyclohexyl phthalate: Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 2 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): > 2 mg/l Exposure time: 48 h Remarks: No toxicity at the limit of solubility Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2
toxicity)Toxicity to microorganisms:EC50 (Bacteria): 35 mg/l Exposure time: 30 min Method: OECD Test Guideline 209Ecotoxicology Assessment.Acute aquatic toxicity:Very toxic to aquatic life.Chronic aquatic toxicity:Very toxic to aquatic life with long lasting effects.dicyclohexyl phthalate: Toxicity to fish:LC50 (Oryzias latipes (Orange-red killifish)): > 2 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubilityToxicity to daphnia and other aquatic invertebrates:NOEC (Daphnia magna (Water flea)): > 2 mg/l Exposure time: 48 h Remarks: No toxicity at the limit of solubilityToxicity to algae/aquatic:ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2
Exposure time: 30 min Method: OECD Test Guideline 209 Ecotoxicology Assessment Acute aquatic toxicity : Very toxic to aquatic life. Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects. dicyclohexyl phthalate: Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 2 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): > 2 mg/l Exposure time: 48 h Remarks: No toxicity at the limit of solubility Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2
Acute aquatic toxicity : Very toxic to aquatic life. Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects. dicyclohexyl phthalate: : LC50 (Oryzias latipes (Orange-red killifish)): > 2 mg/l Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 2 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): > 2 mg/l Exposure time: 48 h Remarks: No toxicity at the limit of solubility Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2
dicyclohexyl phthalate: Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 2 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): > 2 mg/l Exposure time: 48 h Remarks: No toxicity at the limit of solubility Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2
Toxicity to fish:LC50 (Oryzias latipes (Orange-red killifish)): > 2 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubilityToxicity to daphnia and other aquatic invertebrates:NOEC (Daphnia magna (Water flea)): > 2 mg/l Exposure time: 48 h Remarks: No toxicity at the limit of solubilityToxicity to algae/aquatic:ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2
aquatic invertebratesExposure time: 48 h Remarks: No toxicity at the limit of solubilityToxicity to algae/aquatic:ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2
Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)NOEC (Daphnia magna (Water flea)): 0.181 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to microorganisms : NOEC: > 100 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
Ecotoxicology Assessment Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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	Persis	tence and degradabi	lity		
	<u>Comp</u>	onents:			
		zoyl peroxide:			
	Biodegradability : dicyclohexyl phthalate : Biodegradability :		:	Result: Biodegrad Method: OECD Te	able est Guideline 301D
			:	Result: Readily bi	odegradable.
	Bioac	cumulative potential			
	<u>Comp</u>	onents:			
		zoyl peroxide:			
		on coefficient: n- ol/water	:	log Pow: 3.2 (20 °	°C)
	dicycl	ohexyl phthalate:			
		on coefficient: n- ol/water	:	log Pow: 4.82 (25	°C)
	Mobili	ity in soil			
		ta available			
	Other adverse effects				
	<u>Produ</u>	<u>ict:</u>			
	Addition mation	onal ecological infor- 1	:	unprofessional ha	hazard cannot be excluded in the event of ndling or disposal. tic life with long lasting effects.
13.	DISPO	SAL CONSIDERATION	IS		
	Dispo	sal methods			
	-	from residues	:		ld not be allowed to enter drains, water
				cal or used contai	te ponds, waterways or ditches with chemi-
	Contar	minated packaging	:	Empty remaining	
				Dispose of as unu Do not re-use em	
				Do not burn, or us	se a cutting torch on, the empty drum. ordance with local regulations.

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14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3106
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
IATA-DGR		
UN/ID No.	:	UN 3106
Proper shipping name	:	Organic peroxide type D, solid (Dibenzoyl peroxide)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	Organic Peroxides, Keep Away From Heat
Packing instruction (cargo aircraft)	:	570
Packing instruction (passen- ger aircraft)	:	570
IMDG-Code		
UN number	:	UN 3106
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
EmS Code	:	F-J, S-R
Marine pollutant	:	yes
Transport in bulk according	to	Annex II of MARPOL 73/78 and the IBC Co

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

GB 6944/12268		
UN number	:	UN 3106
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)
Class	:	5.2
Packing group Labels		Not assigned by regulation 5.2

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.

according to GB/T 16483 and GB/T 17519



BENOX[®]C-50S

Version Revision Date: SDS Number: 2.1 2022/07/05 60000000301	Date of last issue: 2020/02/20 Date of first issue: 2017/08/01
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15. REGULATORY INFORMATION

National regulatory information
Gefahrgruppe nach DGUV 13 Vorschrift 13 (bisher BGV B4): II (German regulatory re-
quirements)
Law on the Prevention and Control of Occupational Diseases
Regulations on Safety Management of Hazardous Chemicals

Identification	of Major Hazard Installations for	Hazardous Chemicals (GB 18218)
No. / Code	Chemical name / Category	Threshold quantity
W7.2	Organic peroxides	50 t

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
KECI (KR)	:	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
TECI (TH)	:	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

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.
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/

according to GB/T 16483 and GB/T 17519



BENOX[®]C-50S

Version 2.1	Revision Date: 2022/07/05	• •	DS Number: 0000000301	Date of last issue: 2020/02/20 Date of first issue: 2017/08/01
Date format		:	yyyy/mm/dd	
Full text of other abbreviations				
ACGI	-	:	: USA. ACGIH Threshold Limit Values (TLV)	
CN O	EL	:	Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.	
	H / TWA EL / PC-TWA	:	8-hour, time-we Permissible co	eighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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.