

Version	Revision Date:	SDS Number:	Date of last issue: 2022/07/05
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	BENOX [®] C-50		
Chemical nature	:	Organic Peroxide Solid mixture		
Manufacturer or supplier's de	etai	ils		
Company	:	United Initiators (Shanghai) Co., Ltd		
Address	:	Room 501, Bldg. 1, No. 1 Shangda Road Shanghai, China, 200444		
Emergency telephone number	:	+86 21 61172762		
E-mail address	:	cs-initiators.cn@united-in.com		
Recommended use of the chemical and restrictions on use Recommended use : Hardener				

2. HAZARDS IDENTIFICATION

Emergency Overview

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

according to GB/T 16483 and GB/T 17519



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	label elements rd pictograms		
Signa	al word	: Danger	
Hazard statements		H317 May cau H319 Causes H360D May d	may cause a fire. use an allergic skin reaction. serious eye irritation. amage the unborn child. kic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not h and understod P210 Keep av No smoking. P220 Keep/ S P234 Keep or P261 Avoid br P264 Wash sh P272 Contam the workplace P273 Avoid re	vay from heat/ sparks/ open flames/ hot surfaces. tore away from clothing/ combustible materials. hly 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 protec-
		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 Storage: P405 Store P410 Proteo P411 + P235 86 °F. Keep co	If eye irritation persists: Get medical advice/ at- Take off contaminated clothing and wash it before spillage. locked up. ct from sunlight. Store at temperatures not exceeding < 30 °C/ <



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Disposal:

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

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Physical and chemical hazards

Heating may cause a fire.

Health hazards

Causes serious 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)
dicyclohexyl phthalate	84-61-7	>= 50 -< 55
dibenzoyl peroxide	94-36-0	>= 45 -< 50

4. 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.
If inhaled	 Administer oxygen if breathing is difficult or cyanosis is observed. 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.
In case of skin contact	 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.

according to GB/T 16483 and GB/T 17519



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		If on clothe	es, remove clothes.	
In ca	In case of eye contact		e of contact with eyes, rinse immediately with plenty nd seek medical advice. ontact lenses. harmed eye. wide open while rinsing. tion persists, consult a specialist.	
lf swa	allowed	Keep resp	Call a physician immediately. Keep respiratory tract clear. If symptoms persist, call a physician.	
	important symptoms effects, both acute and red	Causes se	e an allergic skin reaction. prious eye irritation. ge the unborn child. effects	
Prote	ction of first-aiders		esponders should pay attention to self-protection e recommended protective clothing	
Notes	s to physician	: Treat sym	Treat symptomatically and supportively.	
5. FIREFI	GHTING MEASURES			
Suita	ble extinguishing media		sistant foam oxide (CO2)	
Unsu media	itable extinguishing a	: High volur	ne water jet	
Spec fightir	ific hazards during fire- ng	Possible e lead to a c Avoid com Contact w tures exce compositio may auto- The produ Flash bac Do not allo courses. Vapours n The produ water.	th incompatible materials or exposure to tempera- eding SADT may result in a self-accelerating de- on reaction with release of flammable vapors which	



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St	becific extinguishing meth- ls	cumstances a Use a water s Collect conta must not be o Fire residues	shing measures that are appropriate to local cir- and the surrounding environment. spray to cool fully closed containers. minated fire extinguishing water separately. This discharged into drains. and contaminated fire extinguishing water must of in accordance with local regulations.
		fire. Remove unda so.	solid water stream as it may scatter and spread amaged containers from fire area if it is safe to do ray to cool unopened containers.
	pecial protective equipment r firefighters	essary.	ntained breathing apparatus for firefighting if nec- protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice and personal protective equip- ment recommendations. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Remove all sources of ignition.	
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.	
Methods and materials for containment and cleaning up	:	Contact with incompatible substances can cause decomposi- tion at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapours/mists with a water spray jet. To clean the floor and all objects contaminated by this materi- al, use plenty of water. Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable.	



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	Prevention of secondary hazards		: Never return spills in original containers for re-use. Treat recovered material as described in the section "I considerations".	
7. HA	NDLING AND STOR	AGE		
Н	landling			
Т	echnical measures	:		measures under EXPOSURE RSONAL PROTECTION section.
	dvice on protection a re and explosion	against :	(which might cau Keep away from Use only explosi Keep away from ignition. Keep away from Avoid dust forma	action to avoid static electricity discharge use ignition of organic vapours). heat and sources of ignition. on-proof equipment. open flames, hot surfaces and sources of combustible material. ation. fate exhaust ventilation at places where dust
A	dvice on safe handlir	ng :	Avoid formation Protect from con Do not breathe v Avoid exposure Avoid contact wi Take precaution Never return any originally remove Provide sufficien Avoid confineme Keep away from other ignition so Smoking, eating plication area. Wash thoroughly For personal pro Persons suscept allergies, chronic	 vapours/dust. obtain special instructions before use. th skin and eyes. ary measures against static discharges. v product to the container from which it was ed. t air exchange and/or exhaust in work rooms. ent. heat, hot surfaces, sparks, open flames and urces. No smoking. and drinking should be prohibited in the ap-
A	voidance of contact	:		ong acids and bases, heavy metals and s, reducing agents
	Storage Conditions for safe sto	prage :	Store in original	container.

according to GB/T 16483 and GB/T 17519



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	Material	's to avoid		Keep containers tightly closed in a cool, well-ventilated place Store in cool place. Keep in a well-ventilated place. Contamination may result in dangerous pressure increases - closed containers may rupture. Observe label precautions. Store in accordance with the particular national regulations. Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage.	
	materia		 Keep away from combustible materials. Keep away from strong acids, bases, heavy metal other reducing substances. em- : < 30 °C 		strong acids, bases, heavy metal salts and
	Recomr perature	nended storage tem-			
	Further age stat	information on stor- pility	- : Stable under recommended storage conditions.		mmended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis	
		(Form of	ters / Permissible		
		exposure)	concentration		
dibenzoyl peroxide	94-36-0	PC-TWA	5 mg/m3	CN OEL	
		TWA	5 mg/m3	ACGIH	
Engineering measures	Minimize work	<place exposure<="" td=""><td>concentrations.</td><td></td></place>	concentrations.		
Personal protective equipment	nt				
Respiratory protection :		In the case of dust or aerosol formation use respirator with an approved filter.			
Filter type :	Filter type P	Filter type P			
Eye/face protection :	to the worksta Please follow selecting prot Always wear eye contact w Tightly fitting s Please wear s	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.			

according to GB/T 16483 and GB/T 17519





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Skin	and body protection		resistance data ar potential. Additional body ga task being perform posable suits) to a Wear as appropria	e protective clothing based on chemical and an assessment of the local exposure arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. ate: ntistatic protective clothing.
N E	d protection Aaterial Break through time Blove thickness	:	butyl-rubber 480 min 0.47 mm	
E	Aaterial Break through time Blove thickness	:	Nitrile rubber 480 min 0.40 mm	
F	Remarks		standard values! ⁻ material has to be tive glove. Choose depending on the ous substance an plications, we reco cals of the aforem	eak through time/strength of material are The exact break through time/strength of obtained from the producer of the protec- e gloves to protect hands against chemicals concentration and quantity of the hazard- d specific to place of work. For special ap- ommend clarifying the resistance to chemi- entioned protective gloves with the glove ish hands before breaks and at the end of
Prot	ective measures			ctive equipment must be selected according on and amount of the dangerous substance kplace.
Hygi	ene measures		Keep away from f When using do no When using do no	ot eat or drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white
Odour	:	aromatic

according to GB/T 16483 and GB/T 17519



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	Odour ⁻	Threshold	:	not determined	
	рН		:	substance/mixtur	re is non-soluble (in water)
	Melting	point/ range	:	Decomposition:	Decomposes below the melting point.
	Boiling	point/boiling range	:	Not applicable	
	Flash p	oint	:	Not applicable	
	Flamma	ability (solid, gas)	:	Organic peroxide)
	Self-igr	hition	:	The substance of	r mixture is not classified as pyrophoric.
		explosion limit / Upper bility limit	:	Upper explosion No data available	
		explosion limit / Lower bility limit	:	Lower explosion No data available	
	Vapour	pressure	:	not determined	
	Relative	e vapour density	:	not determined	
	Relative	e density	:	not determined	
	Density	,	:	not determined	
	Bulk de	ensity	:	ca. 620 kg/m3	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Solu	ubility in other solvents	:	Solvent: Phthalat Description: solu	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Auto-ig	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.
	Viscosi Visc	ty cosity, dynamic	:	Not applicable	

according to GB/T 16483 and GB/T 17519



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	Viso	cosity, kinematic	:	No data available	9
	Explos	ive properties	:	Not explosive Av	oid dust formation.
	Oxidizi	ng properties	:	The substance or mixture is not classified as oxidizing. Organic peroxide	
	Self-he	ating substances	:	The substance o	r mixture is not classified as self heating.
	Particle Particle	e characteristics e size	:	: not determined	
	Particle	e Size Distribution	:	No data available	
10. \$	STABIL	ITY AND REACTIVITY	(
	Reactiv	vity	:		ommended storage conditions. se a fire or explosion.
	Chemi	cal stability	:		ommended storage conditions. n if stored normally.
	Possib tions	ility of hazardous reac-	:	Dust may form e	xplosive mixture in air.
	Conditi	ons to avoid	:	Protect from con Contact with inco tion at or below S Heat, flames and Avoid confineme	mpatible substances can cause decomposi- ADT. sparks.
	Incomp	patible materials	:		ong acids and bases, heavy metals and s, reducing agents
	Hazarc produc	lous decomposition ts	:		ammable, noxious/toxic gases and vapours e case of fire and decomposition

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

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

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Acute	e dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD T	est Guideline 402
			Assessment: The toxicity	substance or mixture has no acute dermal
dibe	nzoyl peroxide:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,0 Method: OECD T Assessment: The icity	
Acute	e inhalation toxicity	:	LC50 (Rat): > 24. Exposure time: 4 Test atmosphere: Method: OECD T Assessment: The tion toxicity	h dust/mist
Acute	e dermal toxicity	:	Remarks: No data	a available
Skin	corrosion/irritation			
-	d on available data, the	clas	sification criteria ar	e not met.
Prod				
Rema		:	May cause skin ir	ritation in susceptible persons.
<u>Com</u>	ponents:			
dicyd	clohexyl phthalate:			
Resu	llt	:	No skin irritation	
Rem	arks	:	May cause skin ir	ritation in susceptible persons.
dibe	nzoyl peroxide:			
Spec	ies	:	Rabbit	
	sure time	:	4 h	
Meth		÷	OECD Test Guide	eline 404
Resu	lit	:	No skin irritation	
	ous eye damage/eye ir		on	
Caus	es serious eye irritation.			
Prod				
Rem	arks	:	Product dust may system.	be irritating to eyes, skin and respiratory



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Comp	onents:			
dicycl	ohexyl phthalate:			
Result		: N	lo eye irritatior	1
Remar	rks		Product dust m ystem.	ay be irritating to eyes, skin and respirat
dibenz	zoyl peroxide:			
Specie			Rabbit	
Result		: Ir	ritation to eyes	s, reversing within 7 days
Respir	ratory or skin sensi	tisation		
Skin s	ensitisation			
May ca	ause an allergic skin	reaction.		
Respir	ratory sensitisation			
Not cla	assified due to lack o	f data.		
<u>Produ</u>	<u>ct:</u>			
Remar	rks	: C	auses sensitis	sation.
<u>Comp</u>	onents:			
dicycl	ohexyl phthalate:			
	ure routes	: S	kin contact	
Specie			louse	
Result		: N	lay cause sen	sitisation by skin contact.
Remar	rks	: C	auses sensitis	sation.
dibenz	zoyl peroxide:			
	ure routes	: S	kin contact	
Specie			louse	
Metho Result				de assay (LLNA) sitisation by skin contact.
Rooult			ay 00000 0011	
	cell mutagenicity			
Not cla	assified due to lack o	f data.		
<u>Comp</u>	onents:			
dicycl	ohexyl phthalate:			
Gonot	oxicity in vitro		tesult: negative temarks: In vit	e ro tests did not show mutagenic effects
Genou				



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	d:h o m =	and managed as			
		oyl peroxide: xicity in vitro	:	Method: OECD Te Result: negative	est Guideline 471
				Method: OECD Te Result: negative	est Guideline 476
C	Genoto	xicity in vivo	:	Test Type: domina Species: Mouse Result: negative	ant lethal test
		ogenicity ssified due to lack of da	ata.		
<u>c</u>	Compo	onents:			
	dicyclc Remarł	hexyl phthalate: s	:	This information is	s not available.
	dibenz Remarł	oyl peroxide: ks	:	This information is	s not available.
	-	luctive toxicity mage the unborn child			
	•	onents:			
d	dicyclo	hexyl phthalate:			
	Reprod sessme	uctive toxicity - As- ent	:	animal experimen	on harmonised classification in EU regulation
d	dibenz	oyl peroxide:			
E	Effects	on fertility	:	Species: Rat, mal Application Route General Toxicity - Method: OECD To	: Oral Parent: NOAEL: 1,000 mg/kg body weight
				Species: Rat, fem Application Route General Toxicity - Method: OECD To	: Oral Parent: NOAEL: 500 mg/kg body weight
	Reprod sessme	uctive toxicity - As- ent	:		dverse effects on sexual function and fertility, it, based on animal experiments.

STOT - single exposure

Not classified due to lack of data.



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dibe Expo	nponents: nzoyl peroxide: osure routes essment	:	Ingestion The substance or organ toxicant, sir	mixture is not classified as specific target ngle exposure.
Not	T - repeated exposure classified due to lack of d	ata.		
<u>Com</u>	iponents:			
Expo	nzoyl peroxide: osure routes essment	:	Ingestion The substance or organ toxicant, re	mixture is not classified as specific target peated exposure.
Rep	eated dose toxicity			
Com	ponents:			
Spec NOA Appl	EL ication Route osure time		Rat 50 mg/kg Ingestion 90 d OECD Test Guide	eline 408
dibe	nzoyl peroxide:			
Spec NOA Appl	cies EL ication Route osure time		Rat 1,000 mg/kg Oral 28 d OECD Test Guide	eline 422
•	iration toxicity classified due to lack of d	ata.		
<u>Com</u>	ponents:			
	nzoyl peroxide: spiration toxicity classific	atio	n	
Furt	her information			
<u>Proc</u> Rem		:	No data available	



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12. ECOLOGICAL INFORMATION

Ecotoxicity		
Product:		
Ecotoxicology Assessment Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.
Components:		
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 plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l 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	:	Toxic to aquatic life with long lasting effects.
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



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	Toxicity plants	v to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD To	
	M-Facto icity)	or (Acute aquatic tox-	:	10	
		to daphnia and other invertebrates (Chron- ty)	:	EC10 (Daphnia m Exposure time: 21 Test Type: semi-s Method: OECD Te	static test
	M-Factor toxicity)	or (Chronic aquatic	:	10	
	Toxicity	to microorganisms	:	EC50 (Bacteria): 3 Exposure time: 30 Method: OECD Te) min
	Ecotox	icology Assessment			
	Acute a	aquatic toxicity	:	Very toxic to aqua	tic life.
	Chronic	e aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
	Persist	ence and degradabili	ity		
	Compo	onents:			
		bhexyl phthalate: radability	:	Result: Readily bi	odegradable.
	dibenz	oyl peroxide:			
	Biodegi	radability	:	Result: Biodegrad Method: OECD Te	lable est Guideline 301D
	Bioacc	umulative potential			
	<u>Compc</u>	onents:			
		bhexyl phthalate: n coefficient: n- /water	:	log Pow: 4.82 (25	°C)



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Partit	nzoyl peroxide: ion coefficient: n- ol/water	: log	g Pow: 3.2 (2	20 °C)			
	lity in soil ata available						
Othe	r adverse effects						
Product: Additional ecological infor- mation			An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.				
3. DISPC	SAL CONSIDERATIC	NS					
Dispo	osal methods						
Waste from residues		Th co Do	Dispose of wastes in an approved waste disposal facili The product should not be allowed to enter drains, wat courses or the soil. Do not contaminate ponds, waterways or ditches with o cal or used container.				
Contaminated packaging		Cle Dis pla En	ean containe spose of cor ant. npty remaini	accordance with local regulations. er with water. atents/ container to an approved waste dispos ng contents. unused product.			

14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	UN 3106	
Proper shipping name	ORGANIC PEROXIE (DIBENZOYL PERC	
Class	5.2	
Packing group	Not assigned by regu	ulation
Labels	5.2	
Environmentally hazardous	yes	
IATA-DGR		
UN/ID No.	UN 3106	
Proper shipping name	Organic peroxide typ (Dibenzoyl peroxide	-



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	ing group	:	5.2 Not assigned by r	egulation s, Keep Away From Heat
Labels Packing instruction (cargo aircraft)		:	570	s, Neep Away From Heat
Packing instruction (passen- ger aircraft)			570	
UN r	G-Code humber er shipping name	:	UN 3106 ORGANIC PERO (DIBENZOYL PE	XIDE TYPE D, SOLID ROXIDE)
Labe EmS	ing group	:	5.2 Not assigned by r 5.2 F-J, S-R yes	,

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 (DIBENZOYL PEROXIDE)	D, SOLID
Class	: 5.2	
Packing group	: Not assigned by regulation	
Labels	: 5.2	
Marine pollutant	: yes	

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.

15. REGULATORY INFORMATION

Law on the Pr	latory information revention and Control of Occupationa e nach TRGS 741: II (German regulate		
Regulations of	on Safety Management of Hazardous	Che	micals
Catalogue of H	lazardous Chemicals	:	Listed
Identification o	f Major Hazard Installations for Hazardo	ous C	Chemicals (GB 18218)
No. / Code	Chemical name / Category		Threshold quantity
W7.2	Organic peroxides		50 t
Hazardous Ch SAWS	emicals for Priority Management under	:	Listed



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-	Ilations on Labour Pro		-	s where Toxic Substances are Used : Not listed		
and E China	Ilation of Environmenta Export of Toxic Chemic a Severely Restricted To Export	cals	-	e First Import of Chemicals and the Impor ort : Not listed		
-	Ilation on the Administ ogue and Classification					
The o	• •	oduc :	•	the following inventories:		
TSCA	A (US)	:		sted 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	S (JP)	:	On the inventory	, or in compliance with the inventory		
ISHL	(JP)	:	On the inventory	, or in compliance with the inventory		
PICC	S (PH)	:	On the inventory	, or in compliance with the inventory		
IECS	C (CN)	:	On the inventory	, or in compliance with the inventory		
TECI	(TH)	:	On the inventory, or in compliance with the inventory			
6. OTHE	R INFORMATION					
Revis	ion Date	:	2024/10/25			
Furth	er information					
Other	r information	:	safety and does uct specification. These safety ins may still contain	sheet only contains information relating to not replace any product information or prod- tructions also apply to empty packaging whic product residues. the label also apply to residues in the con-		
	ces of key data used to ile the Safety Data	:		I data, data from raw material SDSs, OECD arch results and European Chemicals Agen		



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Sheet			cy, http://echa.europa.eu/				
Date format :		yyyy/mm/dd					
Full te	ext of other abbreviati	ions					
ACGII CN OI		:	 USA. ACGIH Threshold Limit Values (TLV) Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents. 				
	H / TWA EL / PC-TWA	:	8-hour, time-weighted average Permissible concentration - time weighted 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.



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