according to GB/T 16483 and GB/T 17519



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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	: CUROX [®] M-303
Chemical nature	: Organic Peroxide Liquid 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 61172762				
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	::	liquid colourless, clear mint-like
Combustible liquid. Heating m skin burns and eye damage. T		cause a fire. Harmful if swallowed or if inhaled. Causes severe to aquatic life.
GHS Classification		
Flammable liquids	:	Category 4
Organic peroxides	:	Type D
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin corrosion/irritation	:	Category 1B
Serious eye damage/eye irri-	:	Category 1

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tation			
Short hazar	-term (acute) aquatic d	: Category 2	
	label elements rd pictograms		
Signa	I word	: Danger	
Haza	rd statements	H302 + H332 I	may cause a fire. Harmful if swallowed or if inhaled. severe skin burns and eye damage.
Precautionary statements		No smoking. P220 Keep/Sto heavy metal sa materials. P234 Keep onl P261 Avoid bre P264 Wash sk P270 Do not e P271 Use only P273 Avoid rel P280 Wear pro- tion/ face prote Response: P301 + P312 + CENTER/ doct P301 + P330 + induce vomiting P303 + P361 + Iy all contamina P304 + P340 + and keep comf POISON CEN P305 + P351 + water for sever and easy to do CENTER/ doct P363 Wash co	 P330 IF SWALLOWED: Call a POISON for if you feel unwell. Rinse mouth. P331 IF SWALLOWED: Rinse mouth. Do NOT g. P353 IF ON SKIN (or hair): Take off immediate ated clothing. Rinse skin with water/ shower. P310 IF INHALED: Remove person to fresh air fortable for breathing. Immediately call a TER/ doctor. P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON

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foam, dry chemical or carbon dioxide to extinguish.

Storage:

P405 Store locked up.
P410 Protect from sunlight.
P411 + P235 Store at temperatures not exceeding < 30 °C/ < 86 °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

Combustible liquid. Heating may cause a fire.

Health hazards

Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage.

Environmental hazards

Toxic to aquatic life.

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)
dimethyl phthalate	131-11-3	>= 55 -< 65
2-Butanone, peroxide	1338-23-4	>= 30 -< 35
hydrogen peroxide	7722-84-1	>= 1 -< 2.5
2-methylpentane-2,4-diol	107-41-5	>= 0.1 -< 1

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.

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				Do not leave the	data sheet to the doctor in attendance. <i>i</i> ctim unattended. soning may appear several hours later.
lf	[:] inhale	ed	:	served. Call a physician ir If breathed in, mo If not breathing, g Respiratory tract I Call a physician o	ve person into fresh air. ive artificial respiration. burning possible if aerosols are inhaled. r poison control centre immediately. ace in recovery position and seek medical
Ir	In case of skin contact		:	Immediate medica wounds from correctly. In case of contact for at least 15 min and shoes.	
Ir	In case of eye contact		:	sue damage and In the case of con of water and seek Continue rinsing e Remove contact I Protect unharmed Keep eye wide op	tact with eyes, rinse immediately with plenty medical advice. eyes during transport to hospital. enses. eye.
lf	[:] swallo	owed	:	Call a physician ir Rinse mouth thoro Keep respiratory to Do NOT induce w If symptoms persi	bughly with water. tract clear.
а		nportant symptoms acts, both acute and I	:	Harmful if swallow Causes serious e Causes severe bu	ye damage.
Ρ	Protect	ion of first-aiders	:		ers should pay attention to self-protection nmended protective clothing
N	lotes t	o physician	:	Treat symptomati	cally and supportively.

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5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray jet Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire- fighting	:	Risk of explosion if heated under confinement. Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up. Avoid confinement. Contact with incompatible materials or exposure to tempera- tures exceeding SADT may result in a self-accelerating de- composition reaction with release of flammable vapors which may auto-ignite. The product burns violently. Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses. Vapours may form explosive mixtures with air. The product will float on water and can be reignited on surface water. Cool closed containers exposed to fire with water spray.
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not use a solid water stream as it may scatter and spread fire. Remove undamaged containers from fire area if it is safe to do so. Use water spray to cool unopened containers.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Follow safe handling advice and personal protective equip-
tive equipment and emer-	ment recommendations.
gency procedures	Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas.

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			Use personal prot Remove all source	• •	
Env	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		:	tion at or below SA Clear spills immed Suppress (knock of spray jet. To clean the floor al, use plenty of w Soak up with inert Isolate waste and Non-sparking tool Local or national r posal of this mate employed in the c	liately. down) gases/vapours/mists with a water and all objects contaminated by this materi- ater. absorbent material. do not reuse.	
	Prevention of secondary : hazards			in original containers for re-use. naterial 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	:	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Keep away from combustible material. Do not spray on a naked flame or any incandescent material.
Advice on safe handling	:	Open drum carefully as content may be under pressure. Protect from contamination. Do not swallow. Do not breathe vapours/dust. Avoid contact with skin and eyes. Avoid formation of aerosol. Take precautionary measures against static discharges. Never return any product to the container from which it was

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			Avoid confinement Keep away from h other ignition sour Smoking, eating a plication area. Wash thoroughly	air exchange and/or exhaust in work rooms. t. heat, hot surfaces, sparks, open flames and rces. No smoking. and drinking should be prohibited in the ap-
Avoida	Avoidance of contact		Accelerators, stro heavy metal salts	ng acids and bases, heavy metals and , reducing agents
Stora	ge			
Condi	tions for safe storage	:	Store in cool place Keep in a well-ver Contamination ma closed containers Observe label pre Store in accordan Avoid impurities (Electrical installat the technological	ightly closed in a cool, well-ventilated place. e. tilated place. ay result in dangerous pressure increases - may rupture. cautions. ce with the particular national regulations. e.g. rust, dust, ash), risk of decomposition. ions / working materials must comply with safety standards. are opened must be carefully resealed and
Mater	Materials to avoid			combustible materials. strong acids, bases, heavy metal salts and bstances.
Recor peratu	mmended storage tem- ure	:	< 30 °C	
Further information on stor- age stability		:	Stable under reco	mmended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
dimethyl phthalate	131-11-3	TWA	5 mg/m3	ACGIH

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2-Butanone, peroxide	1338-23-4	MAC	1.5 mg/m3	CN OEL
	Further inform	mation: Skin		
		C 0.2 ppm ACGI		ACGIH
hydrogen peroxide	7722-84-1	PC-TWA	1.5 mg/m3	CN OEL
		TWA	1 ppm	ACGIH
2-methylpentane-2,4-diol	107-41-5	MAC	100 mg/m3	CN OEL
		TWA (Va-	25 ppm	ACGIH
		pour)		
		STEL (Va-	50 ppm	ACGIH
		pour)		
		STEL (Inhal-	10 mg/m3	ACGIH
		able fraction,		
		Aerosol only)		

Engineering measures	:	Minimize workplace exposure concentrations.
	-	

Personal protective equipment					
Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.			
Filter type	:	ABEK-filter			
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.			
Skin and body protection	:	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Wear as appropriate: Flame retardant antistatic protective clothing.			
	:	Nitrile rubber < 30 min 0.40 mm			
		butyl-rubber 480 min 0.47 mm			

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Remarks		standard value material has to tive glove. Cho depending on ous substance plications, we cals of the afor	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 chem cals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of				
Prote	ective measures		ptective equipment must be selected according ration and amount of the dangerous substance workplace.				
Hygie	ene measures	Keep away fro When using do When using do	with skin, eyes and clothing. m food and drink. o not eat or drink. o not smoke. efore breaks and immediately after handling				

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	colourless, clear
Odour	:	mint-like
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	not determined
Initial boiling point and boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	> 80 °C
		Method: ISO 3679, closed cup

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Flamr	nability (solid, gas)	:	Not applicable	
Flamr	nability (liquids)	:	Flammable liquid	l, Organic peroxide
Self-iç	gnition	:	The substance o	r mixture is not classified as pyrophoric.
	r explosion limit / Upper nability limit	:	Upper explosion not determined	limit
	r explosion limit / Lower nability limit	:	Lower explosion not determined	limit
Vapou	ur pressure	:	not determined	
Relati	ve vapour density	:	not determined	
Relati	ve density	:	not determined	
Densi	ty	:	ca. 1.1 g/cm3 (20) °C)
	ility(ies) ater solubility	:	slightly soluble	
Sc	blubility in other solvents	:	Solvent: organic Description: solu	
			Solvent: Phthalat Description: solu	
	ion coefficient: n- ol/water	:	Not applicable	
Auto-i	ignition temperature	:	not determined	
	Accelerating decomposi- emperature (SADT)	:	temperature at w	H.4 lerating Decomposition Temperature. Lowes hich the tested package size will undergo a decomposition reaction.
Visco Vis	sity scosity, dynamic	:	ca. 9 - 15 mPa.s	(20 °C)
Vis	scosity, kinematic	:	not determined	
Explo	sive properties	:	Not explosive In air mixture.	use, may form flammable/explosive vapour-
Oxidiz	zing properties	:	The substance o Organic peroxide	r mixture is not classified as oxidizing.

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Self-h	eating substances	: The substance	e or mixture is not classified as self heating.

10. STABILITY AND REACTIVITY Reactivity : Stable under recommended storage conditions. Heating may cause a fire or explosion. Chemical stability : Stable under recommended storage conditions. No decomposition if stored normally. Possibility of hazardous reac-Vapours may form explosive mixture with air. : tions Conditions to avoid Protect from contamination. : Contact with incompatible substances can cause decomposition 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

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 1,401 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 4.24 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

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Com	<u>iponents:</u>		
dim	ethyl phthalate:		
	te oral toxicity	: LD50 (Rat)	: > 5,000 mg/kg
Acut	te inhalation toxicity		•
Acut	te dermal toxicity	: LD50 (Rabl	bit): > 12,000 mg/kg
2-Bu	itanone, peroxide:		
Acut	te oral toxicity		ity estimate: 500 mg/kg pert judgement
Acut	te inhalation toxicity	Exposure t Test atmos Method: Ex Assessmer short term	phere: dust/mist pert judgement it: The component/mixture is moderately toxic after
Acut	te dermal toxicity		ity estimate: 2,500 mg/kg spert judgement
hvdi	rogen peroxide:		
-	te oral toxicity	Method: E>	male and female): 431 mg/kg pert judgement ht: The component/mixture is moderately toxic after stion.
Acut	te inhalation toxicity	Exposure t Test atmos Assessmer short term	phere: dust/mist ht: The component/mixture is moderately toxic after inhalation. Based on harmonised classification in EU regulation
Acut	te dermal toxicity		bit): 9,200 mg/kg No adverse effect has been observed in acute tox-
2-m	ethylpentane-2,4-diol:		
	te oral toxicity	Method: Of	: > 2,000 mg/kg ECD Test Guideline 420 nt: The substance or mixture has no acute oral tox-

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			icity Remarks: No mo	ortality observed at this dose.
Acute	inhalation toxicity	:	tion toxicity	3 h
Acute	e dermal toxicity	:	Method: OECD - Assessment: The toxicity	2,000 mg/kg Test Guideline 402 substance or mixture has no acute dermal ortality observed at this dose.
Skin	corrosion/irritation			
Cause	es severe burns.			
<u>Prod</u>				
Rema	ırks	:	Extremely corros	sive and destructive to tissue.
<u>Com</u>	<u>oonents:</u>			
dime	thyl phthalate:			
Speci		:	Rabbit	
Metho Resul		:	Draize Test No skin irritation	
2-But	anone, peroxide:			
Speci	es	:	Rabbit	
Resul	t	:	Causes burns.	
hydro	ogen peroxide:			
Resul	t		Corrosive after 3	minutes or less of exposure
2-me	thylpentane-2,4-diol:			
Speci		:	Rabbit	
Metho		:	OECD Test Guid	deline 404
Resul Rema	-	:	Skin irritation Based on harmo 1272/2008, Anne	nised classification in EU regulation ex VI
Serio	ous eye damage/eye ir	ritat	ion	
	es serious eye damage.			
Produ				
	urks		May cause irreve	

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Com	ponents:		

dimethyl phthalate: Species Result Method	:	Rabbit No eye irritation OECD Test Guideline 405
2-Butanone, peroxide: Result	:	Irreversible effects on the eye
hydrogen peroxide: Result Remarks	:	Irreversible effects on the eye hydrogen peroxide, 35%
2-methylpentane-2,4-diol: Species Result	:	Rabbit

Species	Rabbit
Result	irritating
Method	OECD Test Guideline 405
Remarks	Based on harmonised classification in EU regulation 1272/2008, Annex VI

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Components:

dimethyl phthalate:

Species Method Result	:	Mouse OECD Test Guideline 429 Does not cause skin sensitisation.
	•	
2-Butanone, peroxide:		
Species Method Result	:	Guinea pig OECD Test Guideline 406 Does not cause skin sensitisation.
Assessment	:	Harmful if swallowed., Harmful if inhaled.
2-methylpentane-2,4-diol:		
Test Type Exposure routes	:	Maximisation Test Skin contact

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Speci Metho Resul	bd		 Guinea pig OECD Test Guideline 406 Does not cause skin sensitisation. 					
	cell mutagenicity lassified due to lack o	f data.						
Comp	<u>oonents:</u>							
-	thyl phthalate:							
	toxicity in vitro	: Method: OECD Result: negative	Test Guideline 471					
		Method: OECD Result: negative	Test Guideline 473					
		Method: OECD Result: positive	Test Guideline 476					
Genot	toxicity in vivo	Species: Rat	omosomal aberration ite: Intraperitoneal					
		Test Type: Mic Species: Mouse Application Rou Result: negative	e ite: Intraperitoneal injection					
2-But	anone, peroxide:							
	toxicity in vitro	: Method: OECD Result: negative	Test Guideline 473					
		Method: OECD Result: negative	Test Guideline 471					
		Method: OECD Result: negative	Test Guideline 476					
hvdro	ogen peroxide:							
-	toxicity in vitro	Result: negative	terial reverse mutation assay (AMES) e nation taken from reference works and the					
		Method: OECD Result: positive	omosome aberration test in vitro Test Guideline 473 nation taken from reference works and the					

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rsion	Revision Date: 2024/07/31	SDS Numb 600000000		Date of last issue: 2023/10/10 Date of first issue: 2020/05/11
		literatu	re.	
Geno	toxicity in vivo	cytoge Specie Methoo Result	netic assay es: Mouse (i d: OECD Te : negative	nalian erythrocyte micronucleus test (in vivo ') male and female) est Guideline 474 en peroxide, 35%
	n cell mutagenicity - ssment	: Based	on available	e data, the classification criteria are not met.
2-me	thylpentane-2,4-diol:			
	toxicity in vitro	Metabo Methoo		test on: with and without metabolic activation est Guideline 471
		Test s Metabo Methoo	ystem: mou olic activatio	e mammalian cell gene mutation test use lymphoma cells on: with and without metabolic activation est Guideline 476
		Test sy Metabo Methoo	ystem: Chin olic activatio	osome aberration test in vitro hese hamster ovary cells on: with and without metabolic activation est Guideline 473
	n cell mutagenicity - ssment	: In vitro	tests did n	ot show mutagenic effects
	inogenicity lassified due to lack of	data.		
<u>Com</u>	ponents:			
dime	thyl phthalate:			
Spec		: Rat		
Appli Meth	cation Route	: Skin co	ontact Test Guide	
Resu		: negativ		
Rema				m similar materials
2-But	tanone, peroxide:			
Rema		: This in	formation is	s not available.

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-	ogen peroxide: nogenicity - Assess-	:	Carcinogenicity	classification not possible from current data.
2-me t Rema	thylpentane-2,4-diol: urks	:	This information	n is not available.
Carcir ment	nogenicity - Assess-	:	Based on availa	able data, the classification criteria are not me
Not c	oductive toxicity lassified due to lack of conents:	data.		
dime	thyl phthalate:			
	s on fertility	:		ute: oral (gavage)) Test Guideline 440 e
Effect ment	s on foetal develop-	:	Developmental	ute: Ingestion y Maternal: NOAEL: 840 mg/kg body weight Toxicity: NOAEL: 3,570 mg/kg body weight rest Guideline 414
2-But	anone, peroxide:			
	s on fertility	:	General Toxicit	ute: oral (gavage) y - Parent: NOAEL: 50 mg/kg body weight rest Guideline 421
hydro	ogen peroxide:			
Repro sessr	oductive toxicity - As- nent	:	No data availab	le
2-met	thylpentane-2,4-diol:			
Effect	s on fertility	:		ute: oral (gavage)) Test Guideline 443 e
Repro sessr	oductive toxicity - As- nent	:		e of adverse effects on development, based or ents., Suspected of damaging the unborn

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STOT - single exposure		
Not classified due to lack of da	ata.	
Components:		
hydrogen peroxide:		
Target Organs Assessment	:	Respiratory Tract May cause respiratory irritation.
2-methylpentane-2,4-diol:		
Assessment	:	The substance or mixture is not classified as specific ta organ toxicant, single exposure.
STOT - repeated exposure Not classified due to lack of da	ata.	
Components:		
hydrogen peroxide:		
Remarks	:	No data available
2-methylpentane-2,4-diol:		
Assessment	:	The substance or mixture is not classified as specific ta organ toxicant, repeated exposure.
Repeated dose toxicity		
Components:		
dimethyl phthalate:		
Species	:	Rat
NOAEL	:	770 mg/kg
Application Route Exposure time	÷	Oral 16 w
Method	:	OECD Test Guideline 408
2-Butanone, peroxide:		
Species	:	Rat
NOAEL	:	200 mg/kg
Application Route Exposure time	:	oral (gavage) 28 d
Method	:	OECD Test Guideline 407
Repeated dose toxicity - Assessment	:	Harmful if swallowed., Harmful if inhaled.

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	EL cation Route sure time	: Mouse, female : 37 mg/kg : oral (drinking : 90 d : hydrogen perc	water)
	EL cation Route sure time	: Mouse, males : 26 mg/kg : oral (drinking : 90 : hydrogen perc	water)
Speci NOAE Applic	EL cation Route sure time	: Rat, male and 450 mg/kg bw Ingestion 90 OECD Test G	/day
Not cl	ation toxicity lassified due to lack o ponents:	of data.	
	thyl phthalate: spiration toxicity class	ification	
-	ogen peroxide: d on available data, t	ne classification criteria	a are not met.
	thylpentane-2,4-diol d on available data, t	: ne classification criteria	a are not met.
Furth	er information		
<u>Produ</u> Rema		: No data availa	ble
<u>Com</u> r	oonents:		
dime Rema	thyl phthalate: ırks	: No data availa	ble

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12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
dimethyl phthalate: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 39 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): > 52 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 260 mg/l Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 11 mg/l Exposure time: 102 d Method: OECD Test Guideline 210
		LOEC (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 102 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 21 d
		LOEC (Daphnia magna (Water flea)): 23 mg/l Exposure time: 21 d
Toxicity to microorganisms	:	EC50: 4,100 mg/l Exposure time: 0.5 h Method: OECD Test Guideline 209
2-Butanone, peroxide:		
Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): 44.2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
		NOEC (Poecilia reticulata (guppy)): 18 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 39 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
		NOEC (Daphnia magna (Water flea)): 26.7 mg/l Method: OECD Test Guideline 202

according to GB/T 16483 and GB/T 17519



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	Toxicity to algae/aquatic plants		mg/l Exposure time: 7	chneriella subcapitata (green algae)): 5.6 2 h ⁻ est Guideline 201
			mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 2.1 2 h ⁻ est Guideline 201
Toxici	ity to microorganisms	:	EC50 (Bacteria): Exposure time: 0 Method: OECD 1	
hydro	ogen peroxide:			
-	ity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 16.4 mg/l 6 h
	ity to daphnia and other ic invertebrates	:	LC50 (Daphnia p Exposure time: 4	ulex (Water flea)): 2.4 mg/l 8 h
Toxici plants	ity to algae/aquatic	:	EC50 (Skeletone Exposure time: 7	ma costatum (marine diatom)): 1.38 mg/l 2 h
			NOEC (Skeletone Exposure time: 7	ema costatum (marine diatom)): 0.63 mg/l '2 h
	ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.63 mg/l 1 d
Toxici	ity to microorganisms	:	Exposure time: 3	sludge): > 1,000 mg/l h Test Guideline 209
2-me	thylpentane-2,4-diol:			
	ity to fish	:	Exposure time: 9	affinis (Mosquito fish)): 8,510 mg/l 6 h ēst Guideline 203
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea)): 5,410 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxici plants	ity to algae/aquatic	:	EC50 (Pseudokir mg/l End point: Growt Exposure time: 7 Test Type: static	'2 h

according to GB/T 16483 and GB/T 17519





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				Method: OECD	Test Guideline 201
				NOEC (Raphidoo 729 mg/l End point: Growt Exposure time: 7 Test Type: static	72 h
				Method: OECD	Test Guideline 201
To	xicity	to microorganisms	:	Remarks: No da	ta available
Pe	rsiste	nce and degradabi	lity		
<u>Co</u>	mpor	nents:			
dir	nethy	/I phthalate:			
Bic	odegra	adability	:	Result: Readily b Method: OECD	biodegradable. Test Guideline 301E
2-E	Butan	one, peroxide:			
		adability	:		biodegradable. Test Guideline 301D
hv	droae	en peroxide:			
-	-	adability	:	Result: Readily b	biodegradable.
2- r	nethy	Ipentane-2,4-diol:			
	-	adability	:	aerobic Inoculum: activa Result: Readily b Biodegradation: Method: OECD	biodegradable.
Bio	oaccu	imulative potential			
<u>Co</u>	mpor	<u>nents:</u>			
dir	nethy	/l phthalate:			
Bio	baccu	mulation	:	Bioconcentration Method: OECD	factor (BCF): 57 Fest Guideline 305
	rtition tanol/\	coefficient: n- water	:	log Pow: 1.54	
2-E	Butan	one, peroxide:			
	rtition tanol/\	coefficient: n- water	:	log Pow: < 0.3 (2	25 °C)

according to GB/T 16483 and GB/T 17519



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	hydrogen peroxide: Partition coefficient: n- octanol/water		:	log Pow: -1.57 (20 Remarks: Informa Calculation) °C) ion refers to the main component.
	2-methylpentane-2,4-diol: Partition coefficient: n- octanol/water		:	log Pow: -0.14	
		a available			
	Other a	adverse effects			
		roduct: dditional ecological infor- : ation		An environmental hazard cannot be excluded in the event unprofessional handling or disposal. Toxic to aquatic life.	
	<u>Compo</u>	onents:			
	dimethyl phthalate: Additional ecological infor- mation		:	No data available	
13.	DISPOS	AL CONSIDERATION	S		
	Disnos	al methods			
	•	from residues	:	The product shoul courses or the soil	e ponds, waterways or ditches with chemi-
	Contar	ninated packaging	:	Clean container w Dispose of contemplant. Empty remaining Dispose of as unu Do not re-use employed	ts/ container to an approved waste disposal contents. sed product.

14. TRANSPORT INFORMATION

International Regulations

according to GB/T 16483 and GB/T 17519



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UNRTDG

UN number	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	UN 3105
Proper shipping name	:	Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s))
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
č		
IMDG-Code		
UN number	:	
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
EmS Code	:	F-J, S-R
Marine pollutant	:	no

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 3105
Proper shipping name :		ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
Class :		5.2
Packing group :	:	Not assigned by regulation
Labels :		5.2
Marine pollutant :		no

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.

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15. REGULATORY INFORMATION

National regulatory information Gefahrgruppe nach TRGS 741: Ib (German regulatory requirements)						
	vention and Control of O					
•	Safety Management of H					
No. / Code W7.2	Chemical name / Catego Organic peroxides	for Hazardous Chemicals (GB 18218) bry Threshold quantity 50 t				
The component	s of this product are rep	orted in the following inventories:				
TCSI (TW)	: On the i	nventory, or in compliance with the inventory				
TSCA (US)	: All subs	ances listed as active on the TSCA inventory				
AIIC (AU)		oonents are listed on the inventory, regulatory obliga- trictions apply				
DSL (CA)	: All comp	ponents of this product are on the Canadian DSL				
ENCS (JP)	: On the i	nventory, or in compliance with the inventory				
ISHL (JP)	: On the i	nventory, or in compliance with the inventory				
KECI (KR)	: On the i	nventory, or in compliance with the inventory				
PICCS (PH)	: On the i	nventory, or in compliance with the inventory				
IECSC (CN)	: On the i	nventory, or in compliance with the inventory				
TECI (TH)	: On the i	nventory, or in compliance with the inventory				

16. OTHER INFORMATION					
Revision Date	: 2024/07/31				
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. 				
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according to GB/T 16483 and GB/T 17519



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			The hazards on th tainer.	ne label also apply to residues in the con-
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 Agen- cy, http://echa.europa.eu/	
Date format		:	yyyy/mm/dd	
Full text of other abbreviation ACGIH CN OEL			USA. ACGIH Thre	eshold Limit Values (TLV) osure limits for hazardous agents in the ical hazardous agents.
ACGIH / TWA ACGIH / STEL ACGIH / C CN OEL / PC-TWA CN OEL / MAC		:	8-hour, time-weigh Short-term expose Ceiling limit Permissible conce Maximum allowab	ure limit

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



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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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