

Version	Revision Date:	SDS Number:	Date of last issue: 2024/12/02
3.0	2024/12/03	60000000272	Date of first issue: 2018/11/13

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	CUROX [®] A-300
Chemical nature	:	Organic Peroxide Liquid 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 ch Recommended use		ical and restrictions on use Hardener

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	liquid light yellow slight				
Combustible liquid. Heating may cause a fire. May be harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. Toxic to aquatic life.						
GHS Classification						
Flammable liquids	:	Category 4				
Organic peroxides	:	Туре D				
Acute toxicity (Oral)	:	Category 5				
Serious eye damage/eye irri- tation	:	Category 1				
Skin sensitisation	:	Category 1				
Reproductive toxicity	:	Category 2				
Specific target organ toxicity -	:	Category 3 (respiratory tract irritation)				



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-	e exposure t-term (acute) aquatic	: Category 2	
haza		. Oulogory 2	
GHS	label elements		
Haza	ird pictograms		
Signa	al word	: Danger	
Haza	rd statements	H303 May be H317 May cau H318 Causes H335 May cau	may cause a fire. harmful if swallowed. ise an allergic skin reaction. serious eye damage. ise respiratory irritation. ed of damaging fertility or the unborn child.
Preca	autionary statements	P202 Do not h and understoo P210 Keep aw No smoking. P220 Keep/ St P234 Keep on P261 Avoid br P271 Use only P272 Contami the workplace. P273 Avoid re	vay from heat/ sparks/ open flames/ hot surface tore away from clothing/ combustible materials ly in original container. eathing mist or vapours. / outdoors or in a well-ventilated area. nated work clothing should not be allowed out lease to the environment. otective gloves/ protective clothing/ eye protec
		P304 + P340 - and keep com doctor if you fe P305 + P351 - water for seve and easy to do CENTER/ doc P312 Call a P0	+ P338 + P310 IF IN EYES: Rinse cautiously w ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON tor. DISON CENTER/ doctor if you feel unwell. f skin irritation or rash occurs: Get medical ad-

according to GB/T 16483 and GB/T 17519



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		reuse. P370 + P378 foam, dry cher	Take off contaminated clothing and wash it before In case of fire: Use water spray, alcohol-resistant mical or carbon dioxide to extinguish.
		P411 + P235 °F. Keep cool.	locked up. ct from sunlight. Store at temperatures not exceeding 25 °C/ 77
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste

Physical and chemical hazards

Combustible liquid. Heating may cause a fire.

Health hazards

May be harmful if swallowed. Causes serious eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause respiratory irritation.

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)
2,4-Pentanedione, peroxide	37187-22-7	>= 30 -< 35
Diacetone alcohol	123-42-2	>= 30 -< 35
Acetylacetone	123-54-6	>= 2.5 -< 5

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.

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lf inha	aled	:	Symptoms of po Administer oxyg served. If breathed in, m If not breathing, If unconscious, p advice. Keep respiratory	victim unattended. isoning may appear several hours later. en if breathing is difficult or cyanosis is ob- ove person into fresh air. give artificial respiration. blace in recovery position and seek medical r tract clear. sist, call a physician.
In cas	se of skin contact	:	In case of contact for at least 15 m and shoes.	
In cas	se of eye contact	:	of water and see Remove contact Protect unharme Keep eye wide c	
lf swa	allowed	:	Keep respiratory	roughly with water.
	important symptoms effects, both acute and red	:	Causes serious May cause resp	if swallowed. Iergic skin reaction. eye damage.
Prote	ction of first-aiders	:		ders should pay attention to self-protection ommended protective clothing
Notes	s to physician	:	Treat symptoma	tically and supportively.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray jet
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical



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	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 ma lead to a dangerous pressure build-up. Avoid confinement. Contact with incompatible materials or exposure to temper tures exceeding SADT may result in a self-accelerating de composition reaction with release of flammable vapors wh 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 wa courses. Vapours may form explosive mixtures with air. The product will float on water and can be reignited on su water. Cool closed containers exposed to fire with water spray.			
	Specific ods	c extinguishing meth-	:	cumstances and t Use a water spray Collect contamina must not be disch Fire residues and be disposed of in Do not use a solic fire. Remove undamag so.	measures that are appropriate to local cir- he surrounding environment. / to cool fully closed containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.		
	Special for firefi	protective equipment ighters	:	Wear self-contain essary. Use personal prot	ed breathing apparatus for firefighting if nec-		

6. ACCIDENTAL RELEASE MEASURES

tive equipment and emer- gency procedures	Follow safe handling advice and personal protective equip- ment recommendations. Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas. Use personal protective equipment. Remove all sources of ignition.
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according to GB/T 16483 and GB/T 17519



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E	Environmental	precautions	:	Prevent further lea	om entering drains. akage or spillage if safe to do so. aminates rivers and lakes or drains inform ties.
	Methods and materials for containment and cleaning up		:	Contact with incompatible substances can cause decon- tion at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapours/mists with a wat spray jet. To clean the floor and all objects contaminated by this r 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 posal of this material, as well as those materials and ite employed in the cleanup of releases. You will need to d mine which regulations are applicable.	
	Prevention of s nazards	secondary	:		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 exposure - obtain special instructions before use. 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 originally removed.

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				Avoid confinement Keep away from h other ignition sound Smoking, eating a plication area. Wash thoroughly For personal prote Persons susceptil allergies, chronic	heat, hot surfaces, sparks, open flames and rces. No smoking. and drinking should be prohibited in the ap-
ļ	Avoidaı	nce of contact	:	Accelerators, stro heavy metal salts	ng acids and bases, heavy metals and , reducing agents
5	Storage	e			
C	Conditio	ons for safe storage	:	Store in cool place 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. 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
٦	Materia	ls to avoid	:		combustible materials. strong acids, bases, heavy metal salts and bstances.
	Recom peratur	mended storage tem- e	:	10 - 25 °C	
	Further age sta	information on stor- bility	:	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
Diacetone alcohol	123-42-2	PC-TWA	240 mg/m3	CN OEL
		TWA	50 ppm	ACGIH
Acetylacetone	123-54-6	TWA	25 ppm	ACGIH



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Engii	neering measures	: N	1inimize work	xplace exposure concentrations.
Perso	onal protective equip	ment		
	iratory protection	: Ir	n the case of pproved filter	dust or aerosol formation use respirator with an r.
Fil	lter type	: A	BEK-filter	
			n the case of pproved filter	dust or aerosol formation use respirator with an r.
			ABEK-filte	r
Eye/f	ace protection	to F A e T F	o the worksta Please follow electing prote lways wear e ye contact w ightly fitting s Please wear s	yewash stations and safety showers are close attion location. all applicable local/national requirements when ective measures for a specific workplace. eye protection when the potential for inadvertent ith the product cannot be excluded. safety goggles suitable protective goggles. Also wear face pro- e is a splash hazard.
Skin a	and body protection	ro P A ta V	esistance dat otential. additional boo ask being per osable suits) Vear as appro	riate protective clothing based on chemical ta and an assessment of the local exposure dy garments should be used based upon the rformed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. opriate: ant antistatic protective clothing.
Hand	protection			
	aterial		litrile rubber	
	eak through time ove thickness		: 30 min .40 mm	
Br	aterial eak through time ove thickness	: <	utyl-rubber = 480 min .47 mm	
Re	emarks	s n ti d o p c	tandard value naterial has to ve glove. Ch lepending on us substance lications, we als of the afo	at break through time/strength of material are es! The exact break through time/strength of o be obtained from the producer of the protec- oose gloves to protect hands against chemicals the concentration and quantity of the hazard- e and specific to place of work. For special ap- recommend clarifying the resistance to chemi- prementioned protective gloves with the glove . Wash hands before breaks and at the end of



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		workday.	
Prote	ctive measures		protective equipment must be selected according ntration and amount of the dangerous substance c workplace.
Hygie	ne measures	Keep away fi When using When using	et with skin, eyes and clothing. rom food and drink. do not eat or drink. do not smoke. before breaks and immediately after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	light yellow
Odour	:	slight
Odour Threshold	:	not determined
рН	:	6.5
Melting point/ range	:	< 10 °C
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	68 °C
		Method: ISO 3679, closed cup
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Flammable liquid, Organic peroxide
Self-ignition	:	The substance or mixture is not classified as pyrophoric.
Upper explosion limit / Upper flammability limit	:	Upper explosion limit 6.9 %(V) (for a component of this mixture)
Lower explosion limit / Lower flammability limit	:	Lower explosion limit 1.8 %(V) (for a component of this mixture)

according to GB/T 16483 and GB/T 17519



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	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	not determined	
	Relative	e density	:	not determined	
	Density	,	:	ca. 1.1 g/cm3 (20) °C)
	Solubili Wat	ty(ies) er solubility	:	practically insolul	ble
	Solu	ibility in other solvents	:	Solvent: Alcohol Description: com	pletely miscible
				Solvent: Phthalat Description: com	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Auto-ig	nition temperature	:	not determined	
		celerating decomposi- nperature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	Viscosi				
		osity, dynamic	-	ca. 38 mPa.s (20	, ·C)
	Visc	osity, kinematic	:	not determined	
	Explosi	ve properties	:	Not explosive In air mixture.	use, may form flammable/explosive vapour-
	Oxidizir	ng properties	:	The substance of Organic peroxide	mixture is not classified as oxidizing.
	Self-he	ating substances	:	The substance of	r mixture is not classified as self heating.
	Refract	ive index	:	1.4338 (20 °C)	

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.	



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Possibility of hazardous reations	c- : Vapours may form explosive mixtur	e with air.
Conditions to avoid	 Protect from contamination. Contact with incompatible substanc tion at or below SADT. Heat, flames and sparks. Avoid confinement. 	es can cause decompos
Incompatible materials	: Accelerators, strong acids and base heavy metal salts, reducing agents	es, heavy metals and
Hazardous decomposition products	: Irritant, caustic, flammable, noxious can develop in the case of fire and c	
1. TOXICOLOGICAL INFORM	ATION	
Acute toxicity May be harmful if swallowe	1.	
Product:		
Acute oral toxicity	: Acute toxicity estimate: 3,677 mg/kg Method: Calculation method	
Acute inhalation toxicity	: Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapour	
	Method: Calculation method	
Acute dermal toxicity		<g< td=""></g<>
Acute dermal toxicity	Method: Calculation method : Acute toxicity estimate: > 5,000 mg/l	<g< td=""></g<>
	 Method: Calculation method Acute toxicity estimate: > 5,000 mg/l Method: Calculation method 	<g< td=""></g<>
Components:	 Method: Calculation method Acute toxicity estimate: > 5,000 mg/l Method: Calculation method 	<g< td=""></g<>
<u>Components:</u> 2,4-Pentanedione, peroxi	Method: Calculation method : Acute toxicity estimate: > 5,000 mg/l Method: Calculation method le: : LD50 (Rat): > 2,000 mg/kg	



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Diace	tone alcohol:			
Acute	oral toxicity	: LD50 (Rat): 3 Method: OE0	3,002 mg/kg CD Test Guideline 401	
Acute	inhalation toxicity	Exposure tim Test atmosp Method: OEC Assessment: tion toxicity		
Acute	dermal toxicity	Assessment: toxicity	1,875 mg/kg CD Test Guideline 402 The substance or mixture has no acute derm o mortality observed at this dose.	
Acety	lacetone:			
Acute	oral toxicity	: LD50 (Rat): {	570 mg/kg	
Acute	inhalation toxicity	Exposure tim Test atmosp	: LC50 (Rat): 5.1 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403	
Acute	dermal toxicity	: LD50 (Rabbi	t, female): 790 mg/kg	
Skin	corrosion/irritation			
	d on available data, th	ne classification criter	ia are not met.	
Produ				
Rema	Irks	: May cause s	kin irritation in susceptible persons.	
<u>Comp</u>	oonents:			
2,4-Pe	entanedione, peroxi	de:		
Speci		: Rabbit		
Metho Resul		: OECD Test (: No skin irrita	Guideline 404	
Resul	ι	. INO SKIN IFFITA		
Diace	tone alcohol:			
Speci	es	: Rabbit		
Metho	od	: OECD Test (Guideline 404	
Resul	t	: No skin irrita	tion	



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Speci		:	Rabbit	
Resu	It	:	No skin irritatior)
Serio	ous eye damage/eye	irritati	on	
Cause	es serious eye damag	je.		
Prod	uct:			
Rema	arks	:	May cause irrev	rersible eye damage.
Com	ponents:			
2,4-P	entanedione, peroxi	de:		
Speci		:	Rabbit	
Resu		•	Eye irritation	
Metho	bd	•	OECD Test Gui	deline 405
Diace	etone alcohol:			
Speci		:	Rabbit	
Resu		:		s, reversing within 21 days
Metho	bd	:	OECD Test Gui	deline 405
Acety	lacetone:			
Speci		:	Rabbit	
Resu	lt	:	No eye irritation	
Resp	iratory or skin sensi	tisatio	n	
Skin	sensitisation			
May o	cause an allergic skin	reactio	on.	
Resp	iratory sensitisation			
Not c	lassified due to lack o	f data.		
Prod	uct:			
Rema	arks	:	Causes sensitis	ation.
Com	ponents:			
2,4-P	entanedione, peroxi	de:		
Test 7		:	Maximisation Te	est
	sure routes	:	Skin contact	
Speci Metho		:	Guinea pig OECD Test Gui	deline 106
Resul		:		vidence of skin sensitisation in huma
Resu			· · ·	
Rema	arks		Causes sensitis	ation

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Diese	tono olookoli		
Speci	e tone alcohol: es	: Guinea pig	
Metho		: OECD Test Guideline 406	
Resu	t	: Does not cause skin sensitisation.	
Acety	lacetone:		
	sure routes	: Skin contact	
Speci Metho		: Mouse : OECD Test Guideline 429	
Resul		: Does not cause skin sensitisation.	
Germ	cell mutagenicity		
	assified due to lack of	Jata.	
<u>Com</u>	oonents:		
-	entanedione, peroxid		
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMI Method: OECD Test Guideline 471 Result: positive	ES)
		Test Type: In vitro mammalian cell gene mutation Method: OECD Test Guideline 476 Result: negative	test
Geno	toxicity in vivo	 Test Type: In vivo micronucleus test Species: Mouse (male and female) Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative 	
Diace	etone alcohol:		
	toxicity in vitro	: Method: OECD Test Guideline 476 Result: negative	
		Method: OECD Test Guideline 471 Result: negative	
		Method: OECD Test Guideline 473 Result: negative	
Geno	toxicity in vivo	: Remarks: Not classified due to data which are con although insufficient for classification.	nclusive
	cell mutagenicity - ssment	: Tests on bacterial or mammalian cell cultures did mutagenic effects.	not sho
Acety	/lacetone:		
-	toxicity in vitro	: Method: OECD Test Guideline 471	

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		Doculture	a continuo
		Result: ne	gauve
		Method: C Result: pc	DECD Test Guideline 479 ositive
		Method: 0 Result: po	DECD Test Guideline 473 ositive
		Method: 0 Result: ne	DECD Test Guideline 476 egative
Genc	otoxicity in vivo	: Method: C Result: pc	DECD Test Guideline 474 ositive
		Method: C Result: ne	DECD Test Guideline 483 egative
		Method: C Result: ne	DECD Test Guideline 475 egative
		Method: C Result: Ec	DECD Test Guideline 478 quivocal
		Species: I	n Route: Oral
			n Route: inhalation (vapour) DPPTS 870.5395
	inogenicity		
Not c	lassified due to lack o	of data.	
<u>Com</u>	ponents:		
2,4-P Rema	r <mark>entanedione, perox</mark> i arks		mation is not available.
Diace	etone alcohol:		
Carci ment	nogenicity - Assess-	: Weight of cinogen	evidence does not support classification as a car-
-	oductive toxicity ected of damaging fe	rtility or the unborr	n child.
<u>Com</u>	ponents:		
2,4-P	entanedione, peroxi	de:	

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Effects	s on fertility	:	Remarks: No d	ata available
Effects ment	s on foetal develop-	:	Remarks: No d	ata available
Diace	tone alcohol:			
Effects	s on fertility	:	General Toxicit General Toxicit	ute: oral (gavage) y - Parent: NOAEL: 300 mg/kg body weight y F1: NOAEL: 300 mg/kg body weight 9 Test Guideline 422
Effects ment	s on foetal develop-	:	General Toxicit Embryo-foetal	ute: inhalation (vapour) y Maternal: NOAEL: 4.106 toxicity: NOAEL: 12,292 9 Test Guideline 414
Repro- sessm	ductive toxicity - As- ent	:		e of adverse effects on sexual function and on development, based on animal experiments
Acety	lacetone:			
-	s on foetal develop-	:	Duration of Sin General Toxicit Teratogenicity: Embryo-foetal	ute: inhalation (vapour) gle Treatment: 13 d y Maternal: NOAEC: 200 NOAEC Parent: 400 toxicity: NOAEC F1: 50 9 Test Guideline 414
			Duration of Sin General Toxicit Embryo-foetal	ute: inhalation (vapour) gle Treatment: 13 d y Maternal: LOAEC: 400 toxicity: LOAEC F1: 200 9 Test Guideline 414
	- single exposure ause respiratory irritation	on.		
<u>Comp</u>	onents:			
Diace	tone alcohol:			
Target Asses	t Organs sment	:	Respiratory sys May cause resp	stem piratory irritation.

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Repeated dose toxicity

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Diacetone alcohol:

Species NOAEL LOAEL Application Route Exposure time Method	 Rat 1.04 mg/l 4.685 mg/l inhalation (vapour) 6 w OECD Test Guideline 412
Species NOAEL Application Route Method	 Rat 100 mg/kg oral (gavage) OECD Test Guideline 422
Acetylacetone:	
Species NOAEL LOAEL Application Route Exposure time	 Rat 200 mg/kg 805 mg/kg inhalation (vapour) 9 d
Species NOAEL Application Route Exposure time Method	 Rat 100 mg/kg inhalation (vapour) 90 d OECD Test Guideline 413
Species NOAEL LOAEL Application Route Exposure time	 Rabbit 244 mg/kg 975 mg/kg Dermal 9 d

Aspiration toxicity

Not classified due to lack of data.

Components:

Acetylacetone:

No aspiration toxicity classification

Further information

Product:

Remarks

: No data available



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<u>Comp</u>	oonents:			
Acetv	lacetone:			
Rema		:	Solvents may deg	rease the skin.
2. ECOLO	DGICAL INFORMATION	١		
Ecoto	oxicity			
Comp	oonents:			
2.4-Pe	entanedione, peroxide:			
	ty to fish	:	LC50 (Danio reric	o (zebra fish)): > 67.6 mg/l
			Exposure time: 96	δh
			Test Type: semi-s Method: OECD To	
	ty to daphnia and other	:		nagna (Water flea)): 7.05 mg/l
aquatic invertebrates			Exposure time: 48 Method: OECD To	
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokiro mg/l	chneriella subcapitata (green algae)): 5.36
plants			Exposure time: 72	2 h
			Method: OECD T	est Guideline 201
Toxici	ty to microorganisms	:	EC50: 614 mg/l	
	, 0		Exposure time: 3	
			Method: OECD T	est Guideline 209
Diace	tone alcohol:			
	ty to fish	:	LC50 (Oryzias lat	ipes (Orange-red killifish)): > 100 mg/l
			Exposure time: 96	δh
			Method: OECD T	est Guideline 203
	ty to daphnia and other	:		nagna (Water flea)): > 1,000 mg/l
aquat	ic invertebrates		Exposure time: 48 Method: OECD To	
			Method. OECD 1	
	ty to algae/aquatic	:		rchneriella subcapitata (green algae)): >
plants	i		1,000 mg/l Exposure time: 72	2 h
			Method: OECD T	
				represielle autoenitete (steas also alte alte
			mg/l	rchneriella subcapitata (green algae)): 1,00
			Exposure time: 72	
			Method: OECD T	est Guideline 201



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	Acetyla Toxicity	acetone: v to fish	:	LC50 (Fish): 104 Exposure time: 96	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	v to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 34 Method: OECD Te	
				LOEC (Pimephale Exposure time: 34 Method: OECD Te	
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: 107.6 mg/l Exposure time: 3 Method: OECD Te	h
				EC10: 13.2 mg/l Exposure time: 3 Method: OECD Te	
	Persist	ence and degradabili	ity		
	Compo	onents:			
		n tanedione, peroxide : radability	:	Result: Readily bio Method: OECD Te	odegradable. est Guideline 301D
		one alcohol: radability	:	Result: Readily bi Method: OECD Te	



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-	ylacetone: egradability	:	Result: Readily b Method: OECD T	iodegradable. est Guideline 301C
Bioa	ccumulative potential			
Com	ponents:			
2,4-P	entanedione, peroxide	e:		
	ion coefficient: n- ol/water	:	log Pow: 1.1 (25 Method: OECD T	°C) est Guideline 117
Diace	etone alcohol:			
	ion coefficient: n- ol/water	:	log Pow: -0.09 (2	0 °C)
Acety	ylacetone:			
-	ccumulation	:	Bioconcentration Remarks: Calcula	factor (BCF): 3.16 ation
	ion coefficient: n- ol/water	:	log Pow: 0.68 (40) °C)
	lity in soil ata available			
Othe	r adverse effects			
Prod	uct:			
Additi matio	ional ecological infor- m	:		l hazard cannot be excluded in the event of andling or disposal. ife.
3. DISPC	SAL CONSIDERATIO	NS		
Dispo	osal methods			
-	e from residues	:	The product shou courses or the so	ate ponds, waterways or ditches with chemi-
Conta	aminated packaging	:	Clean container w	nts/ container to an approved waste disposa contents.



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Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

: ORGANIC PEROXIDE TYPE D, LIQUID

14. TRANSPORT INFORMATION

International Regulations

UNRTDG
UN number
Proper shipping name

		(ACETYL ACETONE PEROXIDE)
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
		(Acetyl acetone peroxide)
Class	:	5.2
Packing group	:	
Labels	:	Organic Peroxides, Keep Away From Heat
Packing instruction (cargo aircraft)	:	570
Packing instruction (passen-	:	570
ger aircraft)		
IMDG-Code		
UN number	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID
		(ACETYL ACETONE PEROXIDE)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
EmS Code	:	F-J, S-R
Marine pollutant	:	no

: UN 3105

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 Proper shipping name		UN 3105 ORGANIC PEROXIDE TYPE D, LIQUID (ACETYL ACETONE PEROXIDE)
Class Packing group Labels Marine pollutant	:	5.2 Not assigned by regulation 5.2 no



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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

National regulatory information

Gefahrgruppe nach TRGS 741: II (German regulatory requirements) Law on the Prevention and Control of Occupational Diseases

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Listed

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)No. / CodeChemical name / CategoryThreshold quantityW7.2Organic peroxides50 tHazardous Chemicals for Priority Management under:ListedSAWSSAWS::

Regulations on Labour Protection in Workplaces where Toxic Substances are Used

Catalogue of Highly Toxic Chemicals : Not listed

Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import : Not listed and Export

Regulation on the Administration of Precursor Chemicals

Catalogue and Classification of Precursor Chemicals : Not listed

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



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PICCS (PH) IECSC (CN)		:	On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory		
16. OTHER INFORMATION					
Revision Date		:	2024/12/03		
Further information					
Other information		:	This safety datasheet only contains information relating to safety and does not replace any product information or prod- uct specification. These safety instructions also apply to empty packaging which may still contain product residues. The hazards on the label also apply to residues in the con- tainer.		
	Sources of key data used to compile the Safety Data Sheet		:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Ager cy, http://echa.europa.eu/	
	Date format		:	yyyy/mm/dd	
	Full tex ACGIH CN OE		ons : :	USA. ACGIH Thre Occupational exp	eshold Limit Values (TLV) osure limits for hazardous agents in the nical hazardous agents.
ACGIH / TWA CN OEL / PC-TWA		:	8-hour, time-weig Permissible conce	hted average entration - 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 Svstem; 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;



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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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