

CUROX®M-202

Versio 3.1	n Revision Date: 2024/12/18		S Number: 0000000259	Date of last issue: 2022/07/08 Date of first issue: 2017/05/02
1. PR(DUCT AND COMPANY ID	ENT	IFICATION	
Р	roduct name	:	CUROX [®] M-202	
С	ther means of identification	:	None	
	ecommended use of the c ecommended use		iical and restrictio Hardener	ons on use
	anufacturer or supplier's			
C	ompany	:	United Initiators	GmbH
A	ddress	:	DrGustav-Adolj 82049 Pullach	bh-Str. 3
E	mergency telephone numbe	er :	+49 / 89 / 74422	– 0 (24 h)
E	-mail address	:	contact@united-	in.com

2. HAZARDS IDENTIFICATION

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- tation	:	Category 1
Reproductive toxicity	:	Category 2
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 3

GHS label elements

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Hazard pictog	rams	•		
Signal word		: Da	nger	
Hazard statem	nents	H2 H3 H3 H3 H4	02 + H332 Ha 14 Causes se 61 Suspected 01 Toxic to ac	ay cause a fire. armful if swallowed or if inhaled. vere skin burns and eye damage. of damaging fertility or the unborn child.
Precautionary	statements	P2 P2 P2 P2 P2 P2 P2 P2 P2 P2 P2 P2 P2 P	02 Do not har d understood. 10 Keep away smoking. 20 Keep/ Stor 34 Keep only 61 Avoid brea 64 Wash skin 70 Do not eat 71 Use only o 73 Avoid relea 80 Wear protect 14 Contarination 01 + P312 + F NTER/ doctor 01 + P312 + F NTER/ doctor 01 + P330 + F uce vomiting. 03 + P361 + F all contamination 04 + P340 + F d keep comfor USON CENTE 05 + P351 + F ter for several d easy to do. 0 NTER/ doctor 08 + P313 IF ention. 63 Wash cont 70 + P378 In	P330 IF SWALLOWED: Call a POISON if you feel unwell. Rinse mouth. P331 IF SWALLOWED: Rinse mouth. Do NOT P353 IF ON SKIN (or hair): Take off immediate- ed clothing. Rinse skin with water/ shower. P310 IF INHALED: Remove person to fresh air table for breathing. Immediately call a ER/ doctor. P338 + P310 IF IN EYES: Rinse cautiously with minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON

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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.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Organic Peroxide Liquid mixture

Components

Hazardous ingredients	CAS-No.	Concentration (% w/w)
Trimethylpentanediol isobutyrate	6846-50-0	>= 55 -< 65
2-Butanone, peroxide	1338-23-4	>= 25 -< 30
Butanone	78-93-3	>= 1 -< 5
hydrogen peroxide	7722-84-1	>= 1 -< 2.5

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. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later.
First aid measures for differen	t exposure routes
If inhaled :	Administer oxygen if breathing is difficult or cyanosis is ob- served. Call a physician immediately. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Respiratory tract burning possible if aerosols are inhaled. Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear.



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I	n case of skin contact		mmediate medica wounds from corro y. In case of contact, for at least 15 min and shoes.	
I	n case of eye contact		sue damage and b in the case of cont of water and seek Continue rinsing e Remove contact le Protect unharmed Keep eye wide op	act with eyes, rinse immediately with plenty medical advice. yes during transport to hospital. enses. eye.
ŀ	f swallowed		Call a physician in Rinse mouth thorc Keep respiratory ti Do NOT induce vo f symptoms persis	ughly with water. ract clear.
a	<i>l</i> lost important symptoms and effects, both acute and lelayed		Causes severe bu Harmful if swallow Causes serious ey	ve damage. aging fertility or the unborn child. rns. ed or if inhaled. ve damage. aging fertility or the unborn child.
F	Protection of first-aiders			rs should pay attention to self-protection mended protective clothing
٦	lotes to physician	: •	Treat symptomatic	ally and supportively.
5. FIR	EFIGHTING MEASURES			
S	Suitable extinguishing media		Water spray jet Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Insuitable extinguishing nedia	:	High volume wate	r jet

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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 surfa- water. Cool closed containers exposed to fire with water spray. 		
Spec ods	Specific extinguishing meth- ods		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.		
			fire. Remove undama so.	d water stream as it may scatter and spread ged containers from fire area if it is safe to do o cool unopened containers.	
	ial protective equipment efighters	:	essary.	ed breathing apparatus for firefighting if nec- tective equipment.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : 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. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".
Environmental precautions :	Prevent product from entering drains.

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			leakage or spillage if safe to do so. ontaminates rivers and lakes or drains inform orities.
Methods and materials for containment and cleaning up		tion at or below Clear spills imm Suppress (know spray jet. To clean the flo al, use plenty o Soak up with in Isolate waste a Non-sparking to Local or nationa posal of this ma employed in the	nediately. ck down) gases/vapours/mists with a water por and all objects contaminated by this materi-

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. Provide sufficient air exchange and/or exhaust in work rooms. Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the ap- plication area.

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				Wash thoroughly For personal prote	after handling. ection see section 8.
ę	Storage	e			
(Conditio	ons for safe storage	:	Store in cool plac 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. ntilated place. ay result in dangerous pressure increases - may rupture. ecautions. ice 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
I	Materia	ls to avoid	:		combustible materials. strong acids, bases, heavy metal salts and bstances.
	Recom	mended storage tem- e	:	< 30 °C	
	Further age sta	information on stor- bility	:	Stable under reco	ommended 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
2-Butanone, peroxide	1338-23-4	CEIL	0.2 ppm 1.5 mg/m3	TW OEL
		С	0.2 ppm	ACGIH
Butanone	78-93-3	TWA	200 ppm 590 mg/m3	TW OEL
		STEL	250 ppm 737.5 mg/m3	TW OEL
		TWA	75 ppm	ACGIH
		STEL	150 ppm	ACGIH
hydrogen peroxide	7722-84-1	STEL	2 ppm 2.8 mg/m3	TW OEL
		TWA	1 ppm 1.4 mg/m3	TW OEL
		TWA	1 ppm	ACGIH

Biological occupational exposure limits



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Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Butanone	78-93-3	methyl ethyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	2 mg/l	ACGII BEI
Engineering measu	res : Mi	nimize workpla	ce exposure	concentrat	ions.	
Personal protective Respiratory protection	• •	the case of due	st or aerosol	formation u	ise respirator	with an
	ар	proved filter.			·	
Filter type	: AE	3EK-filter				
Hand protection Material Break through tim Glove thickness	ie : 30	trile rubber min 40 mm				
Material Break through tim Glove thickness	ie : 48	tyl-rubber 0 min 17 mm				
Remarks	sta ma tiv de ou pli ca ma	: The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protec- tive glove. Choose gloves to protect hands against chemical depending on the concentration and quantity of the hazard- ous substance and specific to place of work. For special ap- plications, we recommend clarifying the resistance to chemi- cals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.				
Eye protection	to Ple se Alv ey Tig Ple	sure that eyew the workstation ease follow all a lecting protection ways wear eye e contact with t ghtly fitting safe ease wear suita ction if there is	a location. applicable lo ve measures protection w the product o ty goggles able protectiv	cal/national for a speci hen the pot annot be ex ve goggles.	requirements fic workplace. tential for inad xcluded.	when vertent
Skin and body protec		elect appropriat	e protective	clothing bas	sed on chemic	al

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		task being pe posable suits Wear as appr	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.
Prote	ective measures		rotective equipment must be selected according tration and amount of the dangerous substance workplace.
Hygie	ene measures	Keep away fr When using c When using c	with skin, eyes and clothing. om food and drink. Io not eat or drink. Io not smoke. before breaks and immediately after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	not determined
рН	:	No data available substance/mixture is non-soluble (in water)
Melting point/ range	:	< -25 °C
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	90 °C
		Method: ISO 3679, closed cup
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Organic peroxide
Self-ignition	:	The substance or mixture is not classified as pyrophoric.
Upper explosion limit / Upper flammability limit	:	Upper explosion limit No data available
Lower explosion limit / Lower	:	Lower explosion limit

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flar	nmability limit		No data available)	
Va	Vapour pressure		< 1.5 hPa (25 °C) (for a component of this mixture)		
Re	lative vapour density	:	not determined		
Re	lative density	:	not determined		
De	nsity	:	1.01 g/cm3 (20 °	C)	
	lubility(ies) Water solubility	:	practically insolul	ble	
	Solubility in other solvents	:	No data available)	
	rtition coefficient: n- anol/water	: Not applicable			
Au	to-ignition temperature	:	not determined		
	If-Accelerating decomposi- temperature (SADT)	 60 °C Method: UN-Test H.4 SADT-Self Accelerating Decomposition Temperature. temperature at which the tested package size will und self-accelerating decomposition reaction. 		erating Decomposition Temperature. Lowest hich the tested package size will undergo a	
Vis	cosity Viscosity, dynamic	:	16 mPa.s (20 °C)	
	Viscosity, kinematic	:	not determined		
Ex	plosive properties	: Not explosive In use, may form flammable/explosive vaporair mixture.		use, may form flammable/explosive vapour-	
Ox	idizing properties	:	: The substance or mixture is not classified as oxidizing. Organic peroxide		
Se	If-heating substances	:	The substance of	r mixture is not classified as self heating.	
Re	fractive index	:	1.437 (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.
Possibility of hazardous reac-	:	Vapours may form explosive mixture with air.



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tions				
Cond	Conditions to avoid		Protect from co Contact with ind tion at or below Heat, flames ar Avoid confinem	compatible substances can cause decomposi- SADT. nd sparks.
Incon	npatible materials	:		trong acids and bases, heavy metals and lts, reducing agents
Haza produ	rdous decomposition ucts	:		flammable, noxious/toxic gases and vapours the case of fire and decomposition
	COLOGICAL INFORMA	τιοι	N	
Symp	otoms of Overexposure	:	None known.	
	e toxicity hful if swallowed or if inha	aled		
Prod	uct:			
Acute	e oral toxicity	:	Acute toxicity es Method: Calcula	stimate: 1,571 mg/kg Ition method
Acute	e inhalation toxicity	:	Acute toxicity es Exposure time: 4 Test atmosphere Method: Calcula	e: dust/mist
Acute	e dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method	
Com	ponents:			
Trim	ethylpentanediol isobu	tvra	te:	
Acute	e oral toxicity	:	LD50 (Rat): > 2, Method: Expert Assessment: Th icity	
Acute	e inhalation toxicity	:	tion toxicity	6 h e: vapour
Acute	e dermal toxicity	:	LD50 (Guinea p Method: Expert	ig): > 2,000 mg/kg judgement

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rsion	Revision Date: 2024/12/18	SDS Number:Date of last issue: 2022/07/0860000000259Date of first issue: 2017/05/02
		Assessment: The substance or mixture has no acute derma toxicity
2-But	anone, peroxide:	
Acute	e oral toxicity	: Acute toxicity estimate: 500 mg/kg Method: Expert judgement
Acute	inhalation toxicity	 Acute toxicity estimate: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Assessment: The component/mixture is moderately toxic af short term inhalation. Remarks: Based on data from similar materials
Acute	e dermal toxicity	: Acute toxicity estimate: 2,500 mg/kg Method: Expert judgement
Butar	none:	
Acute	oral toxicity	: LD50 (Rat): 2,193 mg/kg Method: OECD Test Guideline 423
Acute	inhalation toxicity	: Remarks: No data available
Acute	e dermal toxicity	 LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on available data, the classification criteria are not met.
hydro	ogen peroxide:	
Acute	e oral toxicity	 LD50 (Rat, male and female): 431 mg/kg Method: Expert judgement Assessment: The component/mixture is moderately toxic af single ingestion.
Acute	inhalation toxicity	 Acute toxicity estimate: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic af short term inhalation. Remarks: Based on harmonised classification in EU regulat 1272/2008, Annex VI
Acute	e dermal toxicity	: LD50 (Rabbit): 9,200 mg/kg Remarks: No adverse effect has been observed in acute to icity tests.

Causes severe burns.



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	<u>Produ</u>	<u>ct:</u>						
	Rema	rks	:	Extremely corro	sive and destructive to tissue.			
	<u>Comp</u>	onents:						
	Trime	thylpentanediol isok	outyra	ate:				
	Specie		:	Guinea pig				
	Expos Result	ure time	:	24 h No skin irritation				
	Rema		:		ble data, the classification criteria are not met.			
	2-Buta	anone, peroxide:						
	Specie	-	:	Rabbit				
	Result		:	Causes burns.				
	Butan	one:						
	Specie		:					
	Asses Metho		:	Repeated expose OECD Test Guid	sure may cause skin dryness or cracking.			
	Result		:	No skin irritation				
			-					
	-	gen peroxide:						
	Result		:	: Corrosive after 3 minutes or less of exposure				
	Seriou	ıs eye damage/eye i	rritati	on				
	Cause	s serious eye damag	e.					
	<u>Produ</u>	<u>ct:</u>						
	Rema	rks	:	May cause irreversible eye damage.				
	Comp	onents:						
	Trime	thylpentanediol isot	outvra	ate:				
	Specie		:	Rabbit				
	Result		:	No eye irritation				
	Expos	ure time	:	24 h				
	2-Buta	anone, peroxide:						
	Result		:	Irreversible effect	cts on the eye			
	Butan	one:						
	Specie		:	Rabbit				
	Result		:	Eye irritation	daline 405			
	Metho	u		OECD Test Gui				



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	ogen peroxide:							
Resul			ects on the eye					
Rema	Irks	: hydrogen perc	xide, 35%					
Resp	iratory or skin sensi	tisation						
Skin	sensitisation							
Not cl	Not classified due to lack of data.							
Resp	iratory sensitisation							
Not cl	assified due to lack o	f data.						
<u>Comp</u>	oonents:							
Trime	ethylpentanediol iso	butyrate:						
Speci		: Guinea pig						
Resul	t	: Does not caus	e skin sensitisation.					
2-But	anone, peroxide:							
Speci	es	: Guinea pig						
Metho	bd	: OECD Test G	uideline 406					
Resul	t	: Does not caus	e skin sensitisation.					
Asses	ssment	: Harmful if swa	llowed., Harmful if inhaled.					
Butar	none:							
Expos	sure routes	: Skin contact						
Speci	es	: Guinea pig						
Metho		: OECD Test G						
Resul	t	: Does not caus	e skin sensitisation.					
Chroi	nic toxicity							
Germ	cell mutagenicity							
Not cl	assified due to lack o	f data.						
<u>Comp</u>	oonents:							
Trime	thylpentanediol iso	butyrate:						
	toxicity in vitro	•	vitro mammalian cell gene mutation test					
			D Test Guideline 476					
		(Ames test)	lation (EC) No. 440/2008, Annex, B.13/14					
		Result: negativ	/e					
			romosome aberration test in vitro D Test Guideline 473					



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	tanone, peroxide: otoxicity in vitro	: Method: OEC Result: negati	D Test Guideline 473 ve
		Result: negati	D Test Guideline 471 ve D Test Guideline 476
		Result: negati	
	none: otoxicity in vitro	: Method: OEC Result: negati	D Test Guideline 471 ve
		Method: OEC Result: negati	D Test Guideline 476 ve
		Method: OEC Result: negati	D Test Guideline 473 ve
Genc	otoxicity in vivo		oute: Intraperitoneal D Test Guideline 474
hydro	ogen peroxide:		
Genc	otoxicity in vitro	Result: negati positive	cterial reverse mutation assay (AMES) ve rmation taken from reference works and the
		Method: OEC Result: positiv	rromosome aberration test in vitro D Test Guideline 473 e rmation taken from reference works and the
Genc	otoxicity in vivo	cytogenetic as Species: Mous Method: OEC Result: negati	se (male and female) D Test Guideline 474
	n cell mutagenicity - ssment	: Based on ava	ilable data, the classification criteria are not met.

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	rcinogenicity ot classified due to lack of c	lata.	
<u>Cc</u>	omponents:		
2-1	Butanone, peroxide:		
Re	emarks	: This information	n is not available.
-	drogen peroxide: arcinogenicity - Assess- ent	: Carcinogenicit	y classification not possible from current data.
Su	productive toxicity spected of damaging fertil	ity or the unborn chil	d.
	imethylpentanediol isobu	itvrato.	
Eff	fects on foetal develop- ent	: Test Type: On Species: Rat Application Ro	D Test Guideline 414
	eproductive toxicity - As- ssment	evidence of ad	lamaging fertility or the unborn child., Some verse effects on sexual function and fertility, elopment, based on animal experiments.
2-1	Butanone, peroxide:		
	fects on fertility	General Toxici	ute: oral (gavage) ty - Parent: NOAEL: 50 mg/kg body weight 0 Test Guideline 421 /e
Βι	itanone:		
Eff	fects on fertility	General Toxici General Toxici Method: OECI	ute: oral (drinking water) ty - Parent: NOAEL: 10,000 mg/l ty F1: NOAEL: 10,000 mg/l) Test Guideline 416 ed on data from similar materials
		General Toxici Method: OEC	ute: oral (drinking water) ty - Parent: LOAEL: 20,000 mg/l) Test Guideline 416 ed on data from similar materials
Eff	fects on foetal develop-	: Species: Rat	



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ment			weight Teratogenicity: N	e: Inhalation Maternal: NOAEC: ca. 1,002 mg/kg body IOAEC Parent: ca. 1,002 mg/kg body weight Fest Guideline 414
•	ogen peroxide: oductive toxicity - As-	:	No data availabl	e
sessn	nent			
STOT	- single exposure			
Not cl	assified due to lack of	data.		
<u>Comp</u>	oonents:			
Butar	none:			
Asses	ssment	:	May cause drow	siness or dizziness.
hvdro	ogen peroxide:			
-	et Organs	:	Respiratory Trac	t
	ssment	:	May cause respi	
	- repeated exposure assified due to lack of o	data.		
Com	oonents:			
hydro	ogen peroxide:			
hydro Rema	o gen peroxide: arks	:	No data availabl	e
Rema	arks	:	No data availabl	9
Rema Repe	ated dose toxicity	:	No data availabl	9
Rema Repe	arks ated dose toxicity ponents:	:	No data availabl	9
Rema Repe <u>Comp</u> 2-But	arks ated dose toxicity <u>ponents:</u> anone, peroxide:	:		e
Rema Repe	arks ated dose toxicity <u>ponents:</u> anone, peroxide: es	:	No data availabl Rat 200 mg/kg	e
Rema Repe <u>Comp</u> 2-But Speci NOAE Applic	arks ated dose toxicity <u>conents:</u> anone, peroxide: es EL cation Route	:	Rat 200 mg/kg oral (gavage)	e
Rema Repe <u>Comp</u> 2-But Speci NOAE Applic Expos	arks ated dose toxicity <u>conents:</u> anone, peroxide: es EL cation Route sure time	:	Rat 200 mg/kg oral (gavage) 28 d	_
Rema Repe <u>Comp</u> 2-But Speci NOAE Applic	arks ated dose toxicity <u>conents:</u> anone, peroxide: es EL cation Route sure time	:	Rat 200 mg/kg oral (gavage)	_
Rema Repe <u>Comp</u> 2-But Speci NOAE Applic Expos Metho	arks ated dose toxicity <u>conents:</u> anone, peroxide: es EL cation Route sure time	:	Rat 200 mg/kg oral (gavage) 28 d OECD Test Guid	_
Rema Repe <u>Comp</u> 2-But Speci NOAE Applic Expos Metho Repea Asses	ated dose toxicity <u>conents:</u> canone, peroxide: es EL cation Route sure time od ated dose toxicity -	:	Rat 200 mg/kg oral (gavage) 28 d OECD Test Guid	leline 407
Rema Repe Comp 2-But Speci NOAE Applic Expos Metho Repea Asses hydro	ated dose toxicity <u>conents:</u> anone, peroxide: es EL cation Route sure time od ated dose toxicity - ssment ogen peroxide: es		Rat 200 mg/kg oral (gavage) 28 d OECD Test Guid	leline 407
Rema Repe Comp 2-But Speci NOAE Applic Expos Metho Repea Asses hydro	ated dose toxicity <u>conents:</u> anone, peroxide: es EL cation Route sure time od ated dose toxicity - ssment ogen peroxide: es	:	Rat 200 mg/kg oral (gavage) 28 d OECD Test Guid Harmful if swalld	leline 407 wed., Harmful if inhaled.

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Expo	sure time	: 90 d					
Rema	arks	: hydrogen perc	oxide, 35%				
Spec	ies	: Mouse, males					
NOA		: 26 mg/kg					
	cation Route	: oral (drinking v	water)				
	sure time	: 90					
Rema	arks	: hydrogen perc	oxide, 35%				
Aspir	ration toxicity						
Not c	lassified due to lack of	f data.					
Com	ponents:						
Trime	ethylpentanediol isol	butyrate:					
Not c	lassified due to data w	hich are conclusive a	Ithough insufficient for classification.				
hydro	ogen peroxide:						

Based on available data, the classification criteria are not met.

Further information

Product:

Remarks : No data available

Components:

Trimethylpentanediol isobutyrate:Remarks: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Trimethylpentanediol isobutyrate:

Toxicity to fish :	NOEC (Fish): >= 6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia (water flea)): >= 1.46 mg/l Exposure time: 48 h
	NOEC (Daphnia (water flea)): 0.7 mg/l Exposure time: 21 d
Toxicity to algae/aquatic : plants	EC50 (Chlorella pyrenoidosa (algae)): > 7.49 mg/l Exposure time: 72 h



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				Method: OECD To	est Guideline 201
		invertebrates (Chron-	:	LOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 0.7 mg/l I d
	Ecotox	icology Assessment			
	Acute a	quatic toxicity	:	This product has	no known ecotoxicological effects.
	Chronic	aquatic toxicity	:	Harmful to aquation	c life with long lasting effects.
	2-Buta	none, peroxide:			
	Toxicity	to fish	:	LC50 (Poecilia ret Exposure time: 96 Method: OECD Te	
				NOEC (Poecilia re Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
				NOEC (Daphnia r Method: OECD To	nagna (Water flea)): 26.7 mg/l est Guideline 202
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD To	
	Toxicity	to microorganisms	:	EC50 (Bacteria): A Exposure time: 0. Method: OECD To	5 h
	Butano	one:			
	Toxicity	r to fish	:	LC50 (Pimephale Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD To	
	Toxicity	to algae/aquatic	:	EC50 (Pseudokiro	chneriella subcapitata (green algae)): 2,029

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	plants			mg/I Exposure time: 96 Method: OECD Te			
	Toxicity to microorganisms		:	NOEC (Pseudomonas putida): 1,150 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8			
	hvdrog	jen peroxide:					
	Toxicity	-	:	LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l Exposure time: 96 h			
		to daphnia and other invertebrates	:	LC50 (Daphnia pu Exposure time: 48	llex (Water flea)): 2.4 mg/l h		
	Toxicity plants	v to algae/aquatic	:	EC50 (Skeletonen Exposure time: 72	na costatum (marine diatom)): 1.38 mg/l h		
				NOEC (Skeletone Exposure time: 72	ma costatum (marine diatom)): 0.63 mg/l h		
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 0.63 mg/l d		
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3 I Method: OECD Te			
	Persist	ence and degradabili	ity				
	Compo	onents:					
	Trimet	hylpentanediol isobut	tyra	te:			
	Biodegr	radability	:	Result: rapidly bio Exposure time: 28 Method: OECD Te			
	2-Buta	none, peroxide:					
	Biodegr	radability	:	Result: Readily bio Method: OECD Te	odegradable. est Guideline 301D		
	Butano	one:					
		radability	:	Result: Readily bid Method: OECD Te	odegradable. est Guideline 301D		
		jen peroxide: radability	:	Result: Readily bio	odegradable.		

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Bioa	ccumulative potential			
Com	ponents:			
Trim	ethylpentanediol isob	utyrate:		
	ccumulation	: Specie		factor (BCF): 1.95
	ion coefficient: n- nol/water	: log Pov	v: 4.91 (2	5 °C)
2-But	tanone, peroxide:			
Partit	ion coefficient: n- nol/water	: log Pov	v: < 0.3 (2	25 °C)
Buta	none:			
	ion coefficient: n- nol/water	: log Pov	v: 0.3 (40	°C)
hydro	ogen peroxide:			
	tion coefficient: n- nol/water			20 °C) ation refers to the main component.
	i lity in soil ata available			
Othe	r adverse effects			
<u>Prod</u> Addit matic	ional ecological infor-	unprofe Toxic to	essional h o aquatic	I hazard cannot be excluded in the event of andling or disposal. ife. ic life with long lasting effects.
3. DISPC	OSAL CONSIDERATIO	NS		
Disp	osal methods			
-	e from residues	The pro courses Do not	oduct sho s or the so	ate ponds, waterways or ditches with chemi-
Conta	aminated packaging	Clean o Dispos plant.	container	cordance with local regulations. with water. nts/ container to an approved waste disposa

Empty remaining contents.

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		Do not re-use e	unused product. empty containers. ruse a cutting torch on, the empty drum.
14. TRAN	SPORT INFORMATION	I	
Interi	national Regulations		
Prope Class Packi Label	umber er shipping name s ing group		ROXIDE TYPE D, LIQUID IYL KETONE PEROXIDE(S)) y regulation
UN/IE	-DGR D No. er shipping name		de type D, liquid
Label Packi aircra Packi	ing group ls ing instruction (cargo	: 5.2 : Not assigned b	etone peroxide(s)) y regulation des, Keep Away From Heat
UN n Prope Class Packi Label	ing group		ROXIDE TYPE D, LIQUID YL KETONE PEROXIDE(S)) y regulation

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

Not applicable for product as supplied.

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)

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Reg	gulations on Occupation	al Safety and Health F	acili- :	applicable
	ndards for the Storage, posal of Industrial Wast		: k	applicable
Reg	ulations on Labelling a		tion :	applicable
Rul	es on Road Traffic Safe		: <- :	applicable applicable
Rul	es on the Prevention of vents.	Poisoning from Organi	c :	Not applicable
Sta	ndard for the Control of ogerous Chemicals	Designated Hazardous	s and :	Not applicable
Esta tion Haz Gas	ablishment Standards a s for Manufacturing, Sto cardous Substances and ses Places ic and Concerned Cher	c ed	Quantity subject to control	
	Toxic chemical substa Concerned chemical s gulations for Governing Priority Management Ch	ubstances Designating and Handl	ing :	Not applicable Not applicable applicable

The components of this product are reported in the following inventories:

TCSI (TW)	:	On the inventory, or in compliance with the inventory
TSCA (US)	:	All substances listed as active on the TSCA inventory
AIIC (AU)	:	On the inventory, or in compliance with the inventory
DSL (CA)	:	All components of this product are on the Canadian DSL
ENCS (JP)	:	On the inventory, or in compliance with the inventory
ISHL (JP)	:	On the inventory, or in compliance with the inventory
KECI (KR)	:	On the inventory, or in compliance with the inventory
PICCS (PH)	:	On the inventory, or in compliance with the inventory
IECSC (CN)	:	On the inventory, or in compliance with the inventory
TECI (TH)	:	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

Further information

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		es of key data used to the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
	Revisio	on Date	:	2024/12/18	
	Other in	nformation	:	safety and does n uct specification. These safety instr may still contain p	neet only contains information relating to not replace any product information or prod- ructions also apply to empty packaging which product residues. The label also apply to residues in the con-
	Date fo	ormat	:	yyyy/mm/dd	
	Full te	xt of other abbreviation	ons		
	ACGIH ACGIH TW OE	BEI	::	ACGIH - Biologica	eshold Limit Values (TLV) al Exposure Indices (BEI) nissible Exposure Limits in Workplace
	ACGIH ACGIH TW OE TW OE	/ TWA / STEL / C EL / TWA EL / STEL EL / CEIL	:	8-hour, time-weig Short-term expos Ceiling limit 8-hour time weigh time weighted ave Ceiling Permissib	ure limit Ited average erage for short term exposure

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, Evalua-



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tion, 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

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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