

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
1.3	03.12.2024	60000000258	Date of first issue: 25.07.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product	identifier
-------------	------------

Trade name : CUROX[®]M-102

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	:	Hardener
stance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company	DrGust	nitiators GmbH tav-Adolph-Str. 3 Pullach
Telephone	: +49 / 89	/ 74422 – 0
E-mail address of person responsible for the SDS	: contact@	2 united-in.com

1.4 Emergency telephone number

+44 1235 239670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Organic peroxides, Type D	H242: Heating may cause a fire.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the un- born child.
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting ef- fects.



CUROX®M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
1.3	03.12.2024	60000000258	Date of first issue: 25.07.2022

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

:		
:	Danger	
:	H242 H302 + H33 H314 H361 H412	Heating may cause a fire. Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.
:	Prevention	:
	P210 P234 P280	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original packaging. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
	Response:	
	P303 + P36	ately all contaminated clothing. Rinse skin with water.
	P304 + P34	0 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immedi- ately call a POISON CENTER/ doctor.
P305 + P351 v le ir P370 + P378 r		i1 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins- ing. Immediately call a POISON CENTER/ doctor.
		 H242 H302 + H33 H314 H361 H412 Prevention P210 P234 P280 Response: P303 + P36 P304 + P34 P305 + P35

Hazardous components which must be listed on the label: Trimethylpentanediol isobutyrate (CAS-No. 6846-50-0) 2-Butanone, peroxide (CAS-No. 1338-23-4)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. UK REACH Regulations SI 2019/758



CUROX®M-102

	ate of last issue: 11.06.2024 ate of first issue: 25.07.2022
--	---

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Organic Peroxide Liquid mixture

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Trimethylpentanediol isobutyrate	6846-50-0 229-934-9 01-2119451093-47	Repr. 2; H361 Aquatic Chronic 3; H412	>= 55 - < 65
2-Butanone, peroxide	1338-23-4 700-954-4 01-2119514691-43- 0000	Org. Perox. D; H242 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 30 - < 35

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing
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.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



CUROX®M-102

Version 1.3	Revision Date: 03.12.2024		S Number: 0000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022
			Call a physician of	ourning possible if aerosols are inhaled. r poison control centre immediately. ace in recovery position and seek medical ract clear.
In case	of skin contact	:	Immediate medica wounds from corro ty. In case of contact for at least 15 min and shoes.	
In case	of eye contact	:	sue damage and b In the case of com of water and seek Continue rinsing e Remove contact le Protect unharmed Keep eye wide op	tact with eyes, rinse immediately with plenty medical advice. eyes during transport to hospital. enses. eye.
If swalld	owed	:	Call a physician in Rinse mouth thoro Keep respiratory t Do NOT induce vo If symptoms persis	bughly with water. ract clear.
4.2 Most important symptoms and effects, both acute and delayed Risks : Harmful if swallowed or if inhaled.				
			Causes serious ey	ye damage. aging fertility or the unborn child.
4.3 Indication of any immediate medical attention and special treatment needed				
Treatmo	ent	:	Treat symptomatio	cally and supportively.

SECTION 5: Firefighting measures

5.1	Extinguishing	media
-----	---------------	-------

Suitable extinguishing media : Water spray jet

Alcohol-resistant foam



CUROX®M-102

Vers 1.3	sion	Revision Date: 03.12.2024		S Number: 0000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022
	Unsuita	ble extinguishing	:	Carbon dioxide (C Dry chemical High volume wate	
	media	0 0		0	
5.2	Special	hazards arising from	the	substance or mix	ture
	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 whic 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 wate 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.	
5.3	Advice f	or firefighters			
	Special for firefi	L	:		ed breathing apparatus for firefighting if nec- nal protective equipment.
	Specific ods	extinguishing meth-	:	fire. Remove undamag so.	water stream as it may scatter and spread ged containers from fire area if it is safe to do p cool unopened containers.
	Further	information	:	cumstances and the Use a water spray Collect contaminar must not be dischar Fire residues and	measures that are appropriate to local cir- ne 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Follow safe handling advice and personal protective equip-
		ment recommendations.
		Beware of vapours accumulating to form explosive concentra-

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



CUROX®M-102

Version 1.3	Revision Date: 03.12.2024	SDS Number: 60000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022		
		Use personal pr Remove all sour Never return spi	Ils in original containers for re-use. material as described in the section "Disposal		
6.2 Enviro	onmental precautions				
Environmental precautions		Prevent further I If the product co	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.		
6.3 Metho	ds and material for co	ntainment and clear	ning up		
	ods for cleaning up	: Contact with inc tion at or below Clear spills imm Suppress (knock spray jet. To clean the floo al, use plenty of Soak up with ine Isolate waste an Non-sparking to Local or nationa posal of this mai employed in the	ompatible substances can cause decomposi- SADT. ediately. k down) gases/vapours/mists with a water or and all objects contaminated by this materi- water. ert absorbent material.		
6.4 Refere	ence to other sections				

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
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.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



CUROX®M-102

Vers 1.3	sion	Revision Date: 03.12.2024		0S Number: 0000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022	
				Avoid confinement Keep away from a other ignition sou Smoking, eating a plication area. Wash thoroughly	heat, hot surfaces, sparks, open flames and rces. No smoking. and drinking should be prohibited in the ap-	
	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.		
	Hygien	e measures	:	food and drink. W	h skin, eyes and clothing. Keep away from /hen using do not eat or drink. When using ash hands before breaks and immediately product.	
7.2	Conditi	ons for safe storage,	inc	uding any incom	patibilities	
	Requir	ements for storage and containers	:	Store in original of cool, well-ventilat ventilated place. sure increases - of precautions. Stor regulations. Avoid composition. Elec comply with the to	container. Keep containers tightly closed in a ed place. Store in cool place. Keep in a well- Contamination may result in dangerous pres- closed containers may rupture. Observe label e in accordance with the particular national d impurities (e.g. rust, dust, ash), risk of de- ctrical installations / working materials must echnological safety standards. Containers d must be carefully resealed and kept upright	
	Advice	on common storage	:		combustible materials. strong acids, bases, heavy metal salts and ıbstances.	
	Recorr peratu	-	:	< 30 °C		
	Furthe age sta	r information on stor- ability	:	Stable under reco	ommended storage conditions.	
7.3	Specifi	c end use(s)				
	-	c use(s)	:	For further inform sheet.	ation, refer to the product technical data	



	of last issue: 11.06.2024 of first issue: 25.07.2022
--	---

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-Butanone, perox- ide	1338-23-4	STEL	0.2 ppm 1.5 mg/m3	GB EH40

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Trimethylpentanediol isobutyrate	Workers	Inhalation	Long-term systemic effects	17.62 mg/m3
	Workers	Skin contact	Long-term local ef- fects	5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4.35 mg/m3
	Consumers	Skin contact	Long-term systemic effects	5 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	5 mg/kg bw/day
2-Butanone, peroxide	Workers	Inhalation	Long-term systemic effects	2.35 mg/m3
	Workers	Skin contact	Long-term systemic effects	1.33 mg/kg bw/day
	Workers	Inhalation	Acute systemic ef- fects	7.05 mg/m3

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Trimethylpentanediol isobutyrate	Fresh water	0.014 mg/l
	Marine water	0.001 mg/l
	Fresh water sediment	5.29 mg/kg dry weight (d.w.)
	Marine sediment	0.529 mg/kg dry weight (d.w.)
	Soil	1.05 mg/kg dry weight (d.w.)
	Sewage treatment plant	3 mg/l
2-Butanone, peroxide	Fresh water	0.0056 mg/l
	Marine water	0.00056 mg/l
	Intermittent use/release	0.056 mg/l
	Sewage treatment plant	1.2 mg/l
	Fresh water sediment	0.0876 mg/kg
	Marine sediment	0.00876 mg/kg
	Soil	0.0142 mg/kg



CUROX®M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
1.3	03.12.2024	60000000258	Date of first issue: 25.07.2022

8.2 Exposure controls

Engineering measures

Minimize workplace exposur	e con	centrations.
Personal protective equipr	nent	
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.
Hand protection		
Material	:	Nitrile rubber
Break through time	:	30 min
Glove thickness	:	0.40 mm
Material	:	butyl-rubber
Break through time	:	480 min
Glove thickness	:	0.47 mm
Remarks	:	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 chemicals 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.
Skin and body protection	:	Select appropriate protective clothing based on chemical re- sistance data and an assessment of the local exposure poten- tial.
		Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Wear as appropriate:
		Flame retardant antistatic protective clothing.
Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.
Filter type	:	ABEK-filter



Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
1.3	03.12.2024	60000000258	Date of first issue: 25.07.2022
Prote	ctive measures		tective equipment must be selected according ation and amount of the dangerous substance workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic 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	:	84 °C Method: ISO 3679, closed cup
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Upper explosion limit No data available
Lower explosion limit / Lower flammability limit	:	Lower explosion limit No data available
Vapour pressure	:	< 1.5 hPa (25 °C) (for a component of this mixture)
Relative vapour density	:	not determined
Relative density	:	not determined
Density	:	1.01 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	practically insoluble
Solubility in other solvents	:	Solvent: Phthalates Description: completely miscible

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



CUROX®M-102

Vers 1.3	sion	Revision Date: 03.12.2024	-	S Number: 0000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022
		n coefficient: n- I/water	:	Not applicable	
	Auto-ig	nition temperature	:	not determined	
	Viscos Viso	ity cosity, dynamic	:	13 mPa.s (20 °C)
	Vise	cosity, kinematic	:	not determined	
	Explos	ive properties	:	Not explosive In use, may form flammable/explosive vapour-air mixture.	
	Oxidizi	ng properties	:	The substance o Organic peroxide	r mixture is not classified as oxidizing.
9.2 (Other i	nformation			
		ccelerating decomposi- nperature (SADT)	:	temperature at w	t H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	Flamm	ability (liquids)	:	Organic peroxide)
	Self-he	eating substances	:	Not applicable	
				The substance o	r mixture is not classified as self heating.
	Refrac	tive index	:	1.438 at 20 °C	
	Self-ignition		:		r mixture is not classified as self heating. The ture is not classified as pyrophoric.
				The substance o	r mixture is not classified as pyrophoric.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions. Heating may cause a fire or explosion.

10.2 Chemical stability

Stable under recommended storage conditions. No decomposition if stored normally.



Version 1.3	Revision Date: 03.12.2024	SDS Number: 60000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022
10.3 Poss	ibility of hazardous r	eactions	
Hazaı	rdous reactions	: Vapours may	form explosive mixture with air.
10.4 Cond	litions to avoid		
Condi	itions to avoid		and sparks.
10.5 Incor	npatible materials		
Mater	ials to avoid		strong acids and bases, heavy metals and salts, reducing agents

10.6 Hazardous decomposition products

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Harmful if swallowed or if inhaled.					
Product:					
Acute oral toxicity	: Acute toxicity estimate: 1,450 mg/kg Method: Calculation method				
Acute inhalation toxicity	: Acute toxicity estimate: 4.35 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method				
Components:					
Trimethylpentanediol isob	outyrate:				
Acute oral toxicity	 LD50 (Rat): > 2,000 mg/kg Method: Expert judgement Assessment: The substance or mixture has no acute oral tox- icity 				
Acute inhalation toxicity	 LCLo (Rat): > 0.12 mg/l Exposure time: 6 h Test atmosphere: vapour Method: Expert judgement Assessment: The substance or mixture has no acute inhala- 				

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



CUROX®M-102

	Revision Date: 03.12.2024	SDS Number: 600000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022					
		tion toxicity Remarks:	/ No mortality observed at this dose.					
Acute dermal toxicity		Method: E	 LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgement Assessment: The substance or mixture has no acute dermal toxicity 					
2-But	anone, peroxide:							
Acute	oral toxicity		ity estimate: 500 mg/kg kpert judgement					
Acute	inhalation toxicity	Exposure t Test atmos Method: E Assessme short term	sphere: dust/mist kpert judgement nt: The component/mixture is moderately toxic afte					
Acute	e dermal toxicity		ity estimate: 2,500 mg/kg kpert judgement					
	corrosion/irritation							
	es severe burns.							
Cause	es severe burns.							
	es severe burns. u ct:	: Extremely	corrosive and destructive to tissue.					
Cause <u>Produ</u> Rema	es severe burns. u ct:	: Extremely	corrosive and destructive to tissue.					
Cause <u>Produ</u> Rema	es severe burns. u <u>ct:</u> arks		corrosive and destructive to tissue.					
Cause Produ Rema <u>Comp</u> Trime Speci	es severe burns. u <u>ct:</u> arks ponents: ethylpentanediol iso es	butyrate: : Guinea pig						
Cause Produ Rema Comp Trime Speci Expos	es severe burns. u <u>ct:</u> arks ponents: ethylpentanediol iso es sure time	butyrate: : Guinea pig : 24 h						
Cause Produ Rema <u>Comp</u> Trime Speci	es severe burns. u <u>ct:</u> arks ponents: ethylpentanediol iso es sure time t	butyrate: : Guinea pig : 24 h : No skin irri	tation					
Cause Produ Rema Comp Trime Speci Expos Resul Resul	es severe burns. u <u>ct:</u> arks ponents: ethylpentanediol iso es sure time t	butyrate: : Guinea pig : 24 h : No skin irri	tation					
Cause Produ Rema Comp Trime Speci Expos Resul Resul	es severe burns. <u>uct:</u> arks <u>conents:</u> ethylpentanediol iso es sure time t arks anone, peroxide:	butyrate: : Guinea pig : 24 h : No skin irri	tation					
Cause Produ Rema Comp Trime Speci Expos Resul Rema 2-But	es severe burns. <u>uct:</u> arks conents: ethylpentanediol iso es sure time t arks canone, peroxide: es	butyrate: : Guinea pig : 24 h : No skin irri : Based on a	tation available data, the classification criteria are not me					
Cause Produ Rema Comp Trime Speci Expos Resul Rema 2-But Speci Resul	es severe burns. <u>uct:</u> arks conents: ethylpentanediol iso es sure time t arks canone, peroxide: es	butyrate: : Guinea pig : 24 h : No skin irri : Based on a : Rabbit : Causes bu	tation available data, the classification criteria are not me					
Cause Produ Rema Comp Trime Speci Expos Resul Rema Speci Resul Speci Resul	es severe burns. uct: arks conents: ethylpentanediol iso es sure time t arks canone, peroxide: es t	butyrate: : Guinea pig : 24 h : No skin irri : Based on a : Rabbit : Causes bu irritation	tation available data, the classification criteria are not me					
Cause Produ Rema Comp Trime Speci Expos Resul Rema Speci Resul Speci Resul	es severe burns. <u>uct:</u> arks <u>conents:</u> ethylpentanediol iso es sure time t arks canone, peroxide: es t us eye damage/eye es serious eye damage	butyrate: : Guinea pig : 24 h : No skin irri : Based on a : Rabbit : Causes bu irritation	tation available data, the classification criteria are not me					



CUROX[®]M-102

/ersion I.3	Revision Date: 03.12.2024	SDS Number: 60000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022					
Com	ponents:							
	ethylpentanediol iso	hutvrate:						
Speci		: Rabbit						
	sure time	: 24 h						
Resu	lt	: No eye irritatio	n					
2-But	tanone, peroxide:							
Resu	lt	: Irreversible eff	ects on the eye					
Resp	iratory or skin sensi	tisation						
Skin	sensitisation							
Not c	lassified due to lack o	f data.						
-	iratory sensitisation lassified due to lack o							
Com	ponents:							
Trime	ethylpentanediol iso	butyrate:						
Species Result		: Guinea pig : Does not caus	: Guinea pig : Does not cause skin sensitisation.					
2-But Speci	tanone, peroxide:							
Metho			: Guinea pig : OECD Test Guideline 406					
Resu			Does not cause skin sensitisation.					
Asses	ssment	: Harmful if swa	: Harmful if swallowed., Harmful if inhaled.					
Germ	n cell mutagenicity							
Not c	lassified due to lack o	f data.						
<u>Com</u>	ponents:							
Trime	ethylpentanediol iso	butyrate:						
Geno	toxicity in vitro		vitro mammalian cell gene mutation test D Test Guideline 476 ve					
		Test Type: Am Method: Regul (Ames test) Result: negativ	ation (EC) No. 440/2008, Annex, B.13/14					
			romosome aberration test in vitro D Test Guideline 473 /e					
		14 / 24	4					

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



CUROX®M-102

	Revision Date: 03.12.2024	-	DS Number: 0000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022
2-But	anone, peroxide:			
Genot	oxicity in vitro	:	Method: OECD Result: negative	Test Guideline 473 e
			Method: OECD Result: negative	Test Guideline 471 e
			Method: OECD Result: negative	Test Guideline 476 e
Carci	nogenicity			
Not cl	assified due to lack of	data.		
<u>Comp</u>	oonents:			
2-But Rema	anone, peroxide: rks	:	This information	n is not available.
Reproductive toxicity Suspected of damaging fert				
-	-	lity or	r the unborn child	I.
Suspe	-	lity oi	r the unborn chilc	I.
Suspe <u>Comp</u>	ected of damaging fertil	-		I.
Suspe <u>Comp</u> Trime	ected of damaging fertil	-	ite: Test Type: One Species: Rat Application Rou	-generation reproduction toxicity study ite: Ingestion Test Guideline 414
Suspe Comp Trime Effect ment	ected of damaging fertil <u>conents:</u> hylpentanediol isob s on foetal develop- ductive toxicity - As-	-	ate: Test Type: One Species: Rat Application Rou Method: OECD Result: negative Suspected of da evidence of adv	-generation reproduction toxicity study ite: Ingestion Test Guideline 414
Suspe Comp Trime Effect ment Repro	ected of damaging fertil <u>conents:</u> hylpentanediol isob s on foetal develop- ductive toxicity - As-	-	ate: Test Type: One Species: Rat Application Rou Method: OECD Result: negative Suspected of da evidence of adv	e-generation reproduction toxicity study ute: Ingestion Test Guideline 414 e amaging fertility or the unborn child., Som verse effects on sexual function and fertilit

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.



CUROX®M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
1.3	03.12.2024	60000000258	Date of first issue: 25.07.2022

Repeated dose toxicity

Components:

2-Butanone, peroxide:

Species	:	Rat
NOAEL	:	200 mg/kg
Application Route	:	oral (gavage)
Exposure time	:	28 d
Method	:	OECD Test Guideline 407

Aspiration toxicity

Not classified due to lack of data.

Components:

Trimethylpentanediol isobutyrate:

Not classified due to data which are conclusive although insufficient for classification.

Further information

Product:

Remarks : No data available

Components:

Trimethylpentanediol isobutyrate: Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

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



CUROX®M-102

Vers 1.3	sion	Revision Date: 03.12.2024		9S Number: 0000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022
	Tovicity	to dophnic and other		Method: OECD To	est Guideline 201
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		•	Exposure time: 21	l d magna (Water flea)
	Ecotox	cicology Assessment			
	Acute a	aquatic toxicity	:	This product has i	no known ecotoxicological effects.
	Chronic	c aquatic toxicity	:	Harmful to aquation	c life with long lasting effects.
	2-Buta	none, peroxide:			
	Toxicity	/ to fish	:	LC50 (Poecilia ref 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 Te	nagna (Water flea)): 26.7 mg/l est Guideline 202
	Toxicity plants	/ to algae/aquatic	:	mg/l	chneriella subcapitata (green algae)): 5.6
				Exposure time: 72 Method: OECD Te	
				mg/l	rchneriella subcapitata (green algae)): 2.1
				Exposure time: 72 Method: OECD Te	
	Toxicity	<i>i</i> to microorganisms	:	EC50 (Bacteria): 4 Exposure time: 0. Method: OECD Te	5 h
12.2 Persistence and degradability					

Components:

Trimethylpentanediol isobutyrate:

Biodegradability	:	Result: rapidly biodegradable
		Exposure time: 28 d
		Method: OECD Test Guideline 301B



CUROX®M-102

Version 1.3	Revision Date: 03.12.2024		DS Number: 00000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022
	Butanone, peroxide: odegradability	:	Result: Readily bi Method: OECD T	odegradable. est Guideline 301D
12.3 Bi	oaccumulative potential			
<u>Cc</u>	omponents:			
Tri	methylpentanediol isobu	ıtyra	ate:	
Bio	paccumulation	:	Species: Fish Bioconcentration	factor (BCF): 1.95
	rtition coefficient: n- tanol/water	:	log Pow: 4.91 (25	°C)
Pa	Butanone, peroxide: rtition coefficient: n- tanol/water	:	log Pow: < 0.3 (2	5 °C)
	obility in soil data available			
12.5 Re	esults of PBT and vPvB a	sse	ssment	
	<u>oduct:</u> sessment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Ot	her adverse effects			
Pr	oduct:			
En tia	docrine disrupting poten-	:	ered to have endo REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
	ditional ecological infor- ation	:	unprofessional ha Toxic to aquatic li	hazard cannot be excluded in the event of andling or disposal. fe. c life with long lasting effects.



VersionRevision Date:SDS Number:Date of last issue: 11.06.20241.303.12.202460000000258Date of first issue: 25.07.2022	
---	--

SECTION 13: Disposal considerations

13.1 Waste treatment methods		
Product	:	Dispose of wastes in an approved waste disposal facility. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemi- cal or used container.
Contaminated packaging	:	Dispose of in accordance with local regulations. Clean container with water. Dispose of contents/ container to an approved waste disposal plant. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1	UN number			
	ADR	:	UN 3105	
	RID	:	UN 3105	
	IMDG	:	UN 3105	
	ΙΑΤΑ	:	UN 3105	
14.2	2 UN proper shipping name			
	ADR	:	ORGANIC PEROXID (METHYL ETHYL KE	E TYPE D, LIQUID TONE PEROXIDE(S))
	RID	:	ORGANIC PEROXID (METHYL ETHYL KE	E TYPE D, LIQUID TONE PEROXIDE(S))
	IMDG	:	ORGANIC PEROXID (METHYL ETHYL KE	E TYPE D, LIQUID TONE PEROXIDE(S))
	ΙΑΤΑ	:	Organic peroxide typ (Methyl ethyl ketone	
14.3	Transport hazard class(es)			
			Class	Subsidiary risks
	ADR	:	5.2	
	RID	:	5.2	
	IMDG	:	5.2	
	ΙΑΤΑ	:	5.2	HEAT



CUROX®M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
1.3	03.12.2024	60000000258	Date of first issue: 25.07.2022

14.4 Packing group

	ADR Packing group Classification Code Labels Tunnel restriction code	:	Not assigned by regulation P1 5.2 (D)
	RID Packing group Classification Code Hazard Identification Number Labels	:	Not assigned by regulation P1 539 5.2
	IMDG Packing group Labels EmS Code	:	Not assigned by regulation 5.2 F-J, S-R
	IATA (Cargo) Packing instruction (cargo aircraft) Packing group Labels	:	570 Not assigned by regulation Organic Peroxides, Keep Away From Heat
	IATA (Passenger) Packing instruction (passen- ger aircraft) Packing group Labels	:	570 Not assigned by regulation Organic Peroxides, Keep Away From Heat
14.5	5 Environmental hazards		
	ADR Environmentally hazardous	:	no
	RID Environmentally hazardous	:	no

14.6 Special precautions for user

Marine pollutant

IMDG

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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

: no

Not applicable for product as supplied.



Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
1.3	03.12.2024	60000000258	Date of first issue: 25.07.2022

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the fol- lowing entries should be considered Number on list 3	
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable	
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable	
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable	
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors	:	hydrogen peroxide	
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable	
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable	
Control of Major Accident Hazards Regulations P6b 2015 (COMAH)	ANI	F-REACTIVE SUBSTANCES D MIXTURES and ORGANIC ROXIDES	

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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		



CUROX®M-102

Version 1.3	Revision Date: 03.12.2024		DS Number: 0000000258	Date of last issue: 11.06.2024 Date of first issue: 25.07.2022
DSL (C	CA)	:	All components of	f 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

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

	Heating may cause a fire.
H302 :	Harmful if swallowed.
	Causes severe skin burns and eye damage.
H318 :	Causes serious eye damage.
H332 :	Harmful if inhaled.
H361 :	Suspected of damaging fertility or the unborn child.
H412 :	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic Eye Dam. Org. Perox. Repr. Skin Corr.	:	Acute toxicity Long-term (chronic) aquatic hazard Serious eye damage Organic peroxides Reproductive toxicity Skin corrosion
	:	UK. EH40 WEL - Workplace Exposure Limits Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air



CUROX®M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
1.3	03.12.2024	60000000258	Date of first issue: 25.07.2022

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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

Eye Dam. 1

Aquatic Chronic 3

Repr. 2

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		Internal technical data data from raw material SDSs. OECD

compile the Safety Data Sheet	eChem Por	eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		
Classification of the n	nixture:	Classification procedure:		
Org. Perox. D	H242	Based on product data or assessment		
Acute Tox. 4	H302	Calculation method		
Acute Tox. 4	H332	Calculation method		
Skin Corr. 1B	H314	Calculation method		

Calculation method

Calculation method

Calculation method

H318

H361

H412



Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
1.3	03.12.2024	60000000258	Date of first issue: 25.07.2022

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.

GB / EN