

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016

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

1.1 Product identifier

Trade name	:	CUROX [®] M-102
Unique Formula Identifier (UFI)	:	GYM8-T0Y5-R00W-ASEJ

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	:	United Initiators GmbH DrGustav-Adolph-Str. 3 82049 Pullach
Telephone	:	+49 / 89 / 74422 – 0
E-mail address of person responsible for the SDS	:	contact@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)

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-	H412: Harmful to aquatic life with long lasting ef-

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CUROX®M-102

Version 3.3	Revision Date: 03.12.2024		SDS Number: 00000000258	Date of last issue: 11.06.2024 Date of first issue: 20.07.2016
egor	y 3		fe	ects.
2.2 Label	elements			
	elling (REGULATION (ard pictograms	EC)	No 1272/2008)	
Signa	al word	:	Danger	
Haza	ard statements	:	H302 + H332 H314 (H361 \$	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.
Prec	autionary statements	:	f P234 F P280 \	Keep away from heat, hot surfaces, sparks, open lames and other ignition sources. No smoking. Keep only in original packaging. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
			Response:	
				+ P353 IF ON SKIN (or hair): Take off immedi- ately all contaminated clothing. Rinse skin with water.
			P304 + P340	
			P305 + P351 \ I	+ P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact enses, if present and easy to do. Continue rins- ng. Immediately call a POISON CENTER/ doctor.
			P370 + P378 I	•

Hazardous components which must be listed on the label:

Trimethylpentanediol isobutyrate (CAS-No. 6846-50-0) 2-Butanone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide (CAS-No. 1338-23-4)



CUROX[®]M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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; Reaction mass of butane-2,2-diyl dihydrop- eroxide and dioxydibutane-2,2-diyl dihydroperoxide	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 Acute toxicity esti- mate Acute oral toxicity: 500 mg/kg Acute inhalation tox- icity (dust/mist): 1.5 mg/l Acute dermal toxicity: 2,500 mg/kg	>= 30 - < 35

For explanation of abbreviations see section 16.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024	
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016	

SECTION 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.
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 observed. 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.
In case of skin contact	 If symptoms persist, call a physician. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with diffic ty. In case of contact, immediately flush skin with plenty of wate for at least 15 minutes while removing contaminated clothin and shoes. Wash contaminated clothing before re-use. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	 Small amounts splashed into eyes can cause irreversible tis sue damage and blindness. In the case of contact with eyes, rinse immediately with plen of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Call a physician immediately. Rinse mouth thoroughly with water.



Version 3.3	Revision Date: 03.12.2024	SDS Numb 600000000	
		Do NO	espiratory tract clear. T induce vomiting. toms persist, call a physician.
4.2 Most i	mportant symptoms a	nd effects, I	both acute and delayed
Risks		Causes Suspec	I if swallowed or if inhaled. s serious eye damage. ted of damaging fertility or the unborn child. s severe burns.
4.3 Indica	tion of any immediate	medical atte	ention and special treatment needed
Treat	ment	: Treat s	ymptomatically and supportively.
SECTION	N 5: Firefighting mea	sures	
5.1 Extino	uishing media		
-	ble extinguishing media	Alcoho	spray jet I-resistant foam I dioxide (CO2) emical
Unsu media	itable extinguishing a	: High vo	olume water jet
5.2 Specia	al hazards arising from	the substa	nce or mixture
-	ific hazards during fire-	: Risk of Possibl lead to Avoid of Contact tures e compose may au The pro Flash b Do not courses Vapour The pro water.	explosion if heated under confinement. e emission of gaseous decomposition products may a dangerous pressure build-up. confinement. t with incompatible materials or exposure to tempera- exceeding SADT may result in a self-accelerating de- sition reaction with release of flammable vapors which to-ignite. boduct burns violently. ack possible over considerable distance. allow run-off from fire fighting to enter drains or water
5.3 Advic	e for firefighters		
	ial protective equipment efighters		elf-contained breathing apparatus for firefighting if nec- Use personal protective equipment.



CUROX®M-102

Version 3.3	Revision Date: 03.12.2024	SDS Number: 60000000258	Date of last issue: 11.06.2024 Date of first issue: 20.07.2016
Speci ods	fic extinguishing meth-	fire. Remove undam so.	lid water stream as it may scatter and spread aged containers from fire area if it is safe to do y to cool unopened containers.
Further information		: Use extinguishin cumstances and Use a water spr Collect contami must not be diso Fire residues ar	ng measures that are appropriate to local cir- d the surrounding environment. ay to cool fully closed containers. nated fire extinguishing water separately. This charged into drains. nd contaminated fire extinguishing water must n accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protect	tive	e equipment and emergency procedures
Personal precautions	:	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".
6.2 Environmental precautions		
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

respective authorities.

If the product contaminates rivers and lakes or drains inform

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Contact with incompatible substances can cause decomposi- tion at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapours/mists with a water spray jet. To clean the floor and all objects contaminated by this materi- al, use plenty of water. Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-
		employed in the cleanup of releases. You will need to deter- mine which regulations are applicable.



CUROX®M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016

6.4 Reference 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. 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. Wash thoroughly after handling. For personal protection see section 8.
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.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in cool place. Keep in a well-ventilated place. Contamination may result in dangerous pressure increases - closed containers may rupture. Observe label precautions. Store in accordance with the particular national regulations. Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must
		composition. Electrical installations / working materials must

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CUROX®M-102

Vers 3.3	sion	Revision Date: 03.12.2024		DS Number: 0000000258	Date of last issue: 11.06.2024 Date of first issue: 20.07.2016
					echnological safety standards. Containers d must be carefully resealed and kept upright le.
	Advice	e on common storage	:		combustible materials. strong acids, bases, heavy metal salts and ibstances.
	Recom peratu	nmended storage tem- re	:	< 30 °C	
	Furthe age sta	r information on stor- ability	:	Stable under reco	ommended storage conditions.
7.3	Specifi	c end use(s)			
	Specifi	c use(s)	:	For further inform sheet.	ation, refer to the product technical data

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; Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane- 2,2-diyl dihydrop- eroxide	1338-23-4	OELV - 15 min (STEL)	0.2 ppm 1.5 mg/m3	IE OEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

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; Reaction mass of	Workers	Inhalation	Long-term systemic effects	2.35 mg/m3

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CUROX®M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016

butane-2,2-diyl dihy- droperoxide and diox- ydibutane-2,2-diyl dihydroperoxide				
	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) according to Regulation (EC) No. 1907/2006

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; Reaction mass of butane-2,2-diyl dihy- droperoxide and dioxydibutane- 2,2-diyl dihydroperoxide	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

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Personal protective equipment

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. Equipment should conform to EN 166
Hand protection Material	:	Nitrile rubber

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





Version 3.3	Revision Date: 03.12.2024		DS Number: 0000000258	Date of last issue: 11.06.2024 Date of first issue: 20.07.2016
Glov Direc Mate Brea	erial lk through time re thickness		butyl-rubber 480 min 0.47 mm	conform to EN 374 conform to EN 374
Rem	arks	:	standard values! T material has to be tive glove. Choose depending on the ous substance an plications, we reco cals of the aforem	eak through time/strength of material are The exact break through time/strength of obtained from the producer of the protec- e gloves to protect hands against chemicals concentration and quantity of the hazard- d specific to place of work. For special ap- ommend clarifying the resistance to chemi- entioned protective gloves with the glove sh hands before breaks and at the end of
Skin and	d body protection	:	resistance data ar potential. Additional body ga task being perform posable suits) to a Wear as appropria	e protective clothing based on chemical and an assessment of the local exposure arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. ate: ntistatic protective clothing.
Respira	tory protection	:	approved filter.	t or aerosol formation use respirator with an mbination filter for vapour/particulate (EN
Filter	r type	:	ABEK-filter	
Protecti	ve measures	:		tive equipment must be selected according on and amount of the dangerous substance kplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: colourless

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CUROX®M-102

Versio 3.3	on	Revision Date: 03.12.2024		S Number: 000000258	Date of last issue: 11.06.2024 Date of first issue: 20.07.2016
(Odour		:	characteristic	
(Odour 1	Threshold	:	not determined	
Ν	Melting	point/ range	:	< -25 °C	
E	Boiling	point/boiling range	:	Decomposition:	Decomposes below the boiling point.
F	Flamma	ability	:	Not applicable	
		explosion limit / Upper bility limit	:	Upper explosion No data available	
		explosion limit / Lower bility limit	:	Lower explosion No data available	
F	Flash p	oint	:	84 °C Method: ISO 367	9, closed cup
ŀ	Auto-igi	nition temperature	:	not determined	
	Self-Accelerating decomposi- tion temperature (SADT)		:	temperature at w	: H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
F	Hc		:	No data available	substance/mixture is non-soluble (in water)
١	Viscosit Visc	y osity, dynamic	:	13 mPa.s (20 °C)	
	Visc	osity, kinematic	:	not determined	
ç	Solubilit Wate	ty(ies) er solubility	:	practically insolul	ble
	Solu	bility in other solvents	:	Solvent: Phthalat	es

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CUROX®M-102

Version 3.3	Revision Date: 03.12.2024	SDS Number: 60000000258	Date of last issue: 11.06.2024 Date of first issue: 20.07.2016
		Description: o	completely miscible
	rtition coefficient: n- anol/water	: Not applicabl	e
Va	oour pressure	: < 1.5 hPa (25 (for a compo	5 °C) nent of this mixture)
Rel	ative density	: not determine	ed
De	nsity	: 1.01 g/cm3 (ź	20 °C)
Rel	ative vapour density	: not determine	ed
9.2 Oth	er information		
Exp	blosives	: Not explosive In use, may f	e orm flammable/explosive vapour-air mixture.
Oxi	dizing properties	: The substand Organic pero	e or mixture is not classified as oxidizing. xide
Fla	mmability (liquids)	: Organic pero	xide
Sel	f-ignition		e or mixture is not classified as self heating. The mixture is not classified as pyrophoric.
		The substand	e or mixture is not classified as pyrophoric.
Sel	f-heating substances	: Not applicabl	e
		The substance	ce or mixture is not classified as self heating.
whi	ostances and mixtures, ich in contact with water, it flammable gases	: The substand contact with v	e or mixture does not emit flammable gases in water.
De	sensitised explosives	: Not applicabl	e

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CUROX®M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024	
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016	

Refractive index

: 1.438 at 20 °C

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.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Vapours may form explosive mixture with air.
---------------------	---	--

10.4 Conditions to avoid

Conditions to avoid	 Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.
---------------------	---

10.5 Incompatible materials

 Materials to avoid
 : Accelerators, strong acids and bases, heavy metals and heavy metal 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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Revision Date:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SDS Number:



Date of last issue: 11.06.2024

CUROX®M-102

Version

	Revision Date: 03.12.2024	600000000258	Date of first issue: 11.06.2024 Date of first issue: 20.07.2016
		•	e: 4 h ere: dust/mist ulation method
<u>Comp</u>	onents:		
Trimet	thylpentanediol iso	butyrate:	
Acute	oral toxicity	: LD50 (Rat): > Method: Expe Assessment: icity	
Acute i	inhalation toxicity	tion toxicity	e: 6 h ere: vapour
Acute	dermal toxicity	Method: Expe	a pig): > 2,000 mg/kg ert judgement The substance or mixture has no acute derma
		action mass of buta	ne-2,2-diyl dihydroperoxide and dioxydibu
	anone peroxide; Re ,2-diyl dihydropero		
tane-2		oxide:	estimate: 500 mg/kg
tane-2 Acute o	,2-diyl dihydropero	 Acute toxicity Method: Expe Acute toxicity Exposure time Test atmosph Method: Expe Assessment: short term inh 	estimate: 500 mg/kg ert judgement estimate: 1.5 mg/l e: 4 h ere: dust/mist ert judgement The component/mixture is moderately toxic af
tane-2 Acute of Acute i	, 2-diyl dihydropero oral toxicity	 Acute toxicity Method: Expe Acute toxicity Exposure time Test atmosph Method: Expe Assessment: short term inh Remarks: Bas 	estimate: 500 mg/kg ert judgement estimate: 1.5 mg/l e: 4 h ere: dust/mist ert judgement The component/mixture is moderately toxic af alation. sed on data from similar materials estimate: 2,500 mg/kg
tane-2Acute iAcute iAcute iSkin c	, 2-diyl dihydropero oral toxicity inhalation toxicity	 Acute toxicity Method: Expe Acute toxicity Exposure time Test atmosph Method: Expe Assessment: short term inh Remarks: Bas Acute toxicity 	estimate: 500 mg/kg ert judgement estimate: 1.5 mg/l e: 4 h ere: dust/mist ert judgement The component/mixture is moderately toxic af alation. sed on data from similar materials estimate: 2,500 mg/kg
tane-2Acute iAcute iAcute iSkin c	,2-diyl dihydropero oral toxicity inhalation toxicity dermal toxicity orrosion/irritation s severe burns.	 Acute toxicity Method: Expe Acute toxicity Exposure time Test atmosph Method: Expe Assessment: short term inh Remarks: Bas Acute toxicity 	estimate: 500 mg/kg ert judgement estimate: 1.5 mg/l e: 4 h ere: dust/mist ert judgement The component/mixture is moderately toxic af alation. sed on data from similar materials estimate: 2,500 mg/kg



CUROX®M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016

Components:

Trimethylpentanediol isobutyrate:

Species	:	Guinea pig
Exposure time	:	24 h
Result	:	No skin irritation
Remarks	:	Based on available data, the classification criteria are not met.

2-Butanone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Species	:	Rabbit
Result	:	Causes burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks

: May cause irreversible eye damage.

Components:

Trimethylpentanediol isobutyrate:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	No eye irritation

2-Butanone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Result

: Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Components:

Trimethylpentanediol isobutyrate:

Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.

2-Butanone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Species	:	Guinea pig
Method	:	OECD Test Guideline 406





rsion	Revision Date: 03.12.2024	SDS Number: 60000000258	Date of last issue: 11.06.2024 Date of first issue: 20.07.2016
Resu	lt	: Does not cau	se skin sensitisation.
Asses	ssment	: Harmful if sw	allowed., Harmful if inhaled.
	n cell mutagenicity lassified due to lack o	⁻ data.	
<u>Com</u>	ponents:		
Trime	ethylpentanediol isol	outyrate:	
	toxicity in vitro	: Test Type: In	vitro mammalian cell gene mutation test D Test Guideline 476 ive
		Test Type: Ai Method: Reg (Ames test) Result: negat	ulation (EC) No. 440/2008, Annex, B.13/14
			hromosome aberration test in vitro D Test Guideline 473 ive
	anone peroxide; Rea 2,2-diyl dihydropero		ne-2,2-diyl dihydroperoxide and dioxydibu-
	toxicity in vitro		D Test Guideline 473 ive
		Method: OEC Result: negat	CD Test Guideline 471 ive
		Method: OEC Result: negat	CD Test Guideline 476 ive
	nogenicity lassified due to lack o	data.	
Com	ponents:		
	anone peroxide; Rea 2,2-diyl dihydropero		ne-2,2-diyl dihydroperoxide and dioxydibu-
Rema			ion is not available.
Repr	oductive toxicity		
-	ected of damaging fer	tility or the unborn ch	lla.



CUROX®M-102

Version 3.3	Revision Date: 03.12.2024	SDS Number: 600000000258	Date of last issue: 11.06.2024 Date of first issue: 20.07.2016
Effe men	cts on foetal develop- t	Species: Ra Application F	Route: Ingestion CD Test Guideline 414
•	roductive toxicity - As- ment	evidence of	f damaging fertility or the unborn child., Some adverse effects on sexual function and fertility, evelopment, based on animal experiments.
	utanone peroxide; Rea -2,2-diyl dihydroperox		ane-2,2-diyl dihydroperoxide and dioxydibu-
Effe	cts on fertility	General Tox	t Route: oral (gavage) icity - Parent: NOAEL: 50 mg/kg body weight CD Test Guideline 421

Result: negative

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

2-Butanone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Species	:	Rat
NOAEL	:	200 mg/kg
Application Route	:	oral (gavage)
Exposure time	:	28 d
Method	:	OECD Test Guideline 407
Repeated dose toxicity - Assessment	:	Harmful if swallowed., Harmful if inhaled.
• • .• . • •		

Aspiration toxicity

Not classified due to lack of data.

Components:

Trimethylpentanediol isobutyrate:

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



Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016

11.2 Information on other hazards

Endocrine disrupting properties				
Product:				
Assessment	:	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.		
Further information				
Product:				
Remarks	:	No data available		
Components:				
Trimethylpentanediol isobuty	yra	ate:		
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 Method: OECD Test Guideline 201
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	LOEC: 0.7 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
Ecotoxicology Assessment Acute aquatic toxicity :	This product has no known ecotoxicological effects.



Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016

Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
2-Butanone peroxide; Reaction tane-2,2-diyl dihydroperoxide		mass of butane-2,2-diyl dihydroperoxide and dioxydibu-
Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): 44.2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
		NOEC (Poecilia reticulata (guppy)): 18 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 39 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
		NOEC (Daphnia magna (Water flea)): 26.7 mg/l Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 5.6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 2.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50 (Bacteria): 48 mg/l Exposure time: 0.5 h Method: OECD Test Guideline 209

12.2 Persistence and degradability

Components:

Trimethylpentanediol isobuty	yra	ite:
Biodegradability	:	Result: rapidly biodegradable Exposure time: 28 d Method: OECD Test Guideline 301B

2-Butanone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Biodegradability	:	Result: Readily biodegradable.
		Method: OECD Test Guideline 301D



Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016

12.3 Bioaccumulative potential

Components:		
Trimethylpentanediol isob	utyra	ate:
Bioaccumulation	:	Species: Fish Bioconcentration factor (BCF): 1.95
Partition coefficient: n- octanol/water	:	log Pow: 4.91 (25 °C)

2-Butanone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Partition coefficient: n- : log Pow: < 0.3 (25 °C) octanol/water

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: 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.

12.6 Endocrine disrupting properties

Product:	
Assessment :	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects	
Product:	
Additional ecological infor- : mation	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



CUROX®M-102

Version 3.3	Revision Date: 03.12.2024	SDS Number: 60000000258	Date of last issue: 11.06.2024 Date of first issue: 20.07.2016			
Product :		The product shou courses or the so Do not contamina	 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. 			
		are not product s Waste codes sho	European Waste Catalogue, Waste Codes pecific, but application specific. buld be assigned by the user, preferably in the waste disposal authorities.			
Contaminated packaging :		Clean container of Dispose of conte plant. Empty remaining Dispose of as un Do not re-use em	nts/ container to an approved waste disposal contents. used product.			

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	UN 3105	
RID	:	UN 3105	
IMDG	:	UN 3105	
ΙΑΤΑ	:	UN 3105	
14.2 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	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





Version 3.3	Revision Date: 03.12.2024		OS Number: 0000000258	Date of last issue: 11.06.2024 Date of first issue: 20.07.2016
ΙΑΤΑ		:	5.2	HEAT
14.4 Pack	king group			
Class Labe	ing group sification Code	:	Not assigned b P1 5.2 (D)	y regulation
Class	ing group sification Code Ird Identification Number Is	::	Not assigned by regulation P1 539 5.2	
Labe	ing group	:	Not assigned b 5.2 F-J, S-R	y regulation
Pack aircra	ing group	:	570 Not assigned b Organic Peroxi	y regulation des, Keep Away From Heat
Pack ger a	(Passenger) ing instruction (passen- ircraft) ing group Is	:	570 Not assigned b	
14.5 Envi	ronmental hazards		U	
	onmentally hazardous	:	no	
RID Envir	onmentally hazardous	:	no	

14.6 Special precautions for user

IMDG

Marine pollutant

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 Maritime transport in bulk according to IMO instruments

: no

Not applicable for product as supplied.



CUROX[®]M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
	Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EU) 2019/1148 on the marketing and use of e sives precursors	explo-
This product is regulated by Regulation (EU) 2019/1148: cious transactions, and significant disappearances and th should be reported to the relevant national contact point.	
pean Parliament and of the Council on the	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

Other regulations:

Gefahrgruppe nach TRGS 741: II (German regulatory requirements)



Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

15.2 Chemical safety assessment

This information is not available.

Skin Corr.

SECTION 16: Other information

Full text of H-Statements

H242	:	Heating may cause a fire.
H302	:	Harmful if swallowed.
H314	:	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 abbreviation	ons	
Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Org. Perox.	:	Organic peroxides
Repr.	:	Reproductive toxicity



CUROX[®]M-102

Version	Revision Date:	SDS Number:	Date of last issue: 11.06.2024
3.3	03.12.2024	60000000258	Date of first issue: 20.07.2016
IE OE	L		Chemical Agents and Carcinogens with Occu- ure Limit Values - Code of Practice, Schedule 1
IE OE (STEI	L / OELV - 15 min _)	: Occupational ex od)	xposure limit value (15-minute reference peri-

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 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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 wh 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, OECE eChem Portal search results and European Chemicals Age cy, http://echa.europa.eu/	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





VersionRevision Date:SDS Number:Date of last issue: 11.06.20243.303.12.202460000000258Date of first issue: 20.07.2016		
---	--	--

Classification of the mixture:

Org. Perox. D	H242
Acute Tox. 4	H302
Acute Tox. 4	H332
Skin Corr. 1B	H314
Eye Dam. 1	H318
Repr. 2	H361
Aquatic Chronic 3	H412

Classification procedure:

В	ased on product data or assessment
С	alculation method

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.

IE / EN