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

1.1 Product identifier

Trade name	: CUROX [®] M-102R
Unique Formula Identifier (UFI)	: PVM8-A08S-F00E-PEUG

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

0800 000 7801 (toll-free, access from Germany only) +49 89 220 61012

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-			

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egory	3	fect	s.
.2 Label	elements		
	Iling (REGULATION rd pictograms	(EC) No 1272/2008)	
Signa	I word	: Danger	
Hazaı	rd statements	H302 + H332 H314 Causes H361 Suspec	may cause a fire. Harmful if swallowed or if inhaled. severe skin burns and eye damage. ted of damaging fertility or the unborn child. to aquatic life with long lasting effects.
Preca	autionary statements	flames and othe P234 Keep of P280 Wear p	way from heat, hot surfaces, sparks, open er ignition sources. No smoking. nly in original packaging. rotective gloves/ protective clothing/ eye prote ction/ hearing protection.
		P304 + P340 + air and keep co POISON CENT P305 + P351 + with water for s sent and easy t POISON CENT P370 + P378	inated clothing. Rinse skin with water. P310 IF INHALED: Remove person to fres mfortable for breathing. Immediately call a ER/ doctor. P338 + P310 IF IN EYES: Rinse cautiously everal minutes. Remove contact lenses, if pre o do. Continue rinsing. Immediately call a

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)

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.

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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.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Trimethylpentanediol isobutyrate	6846-50-0	Repr. 2; H361	>= 55 - < 65
	229-934-9	Aquatic Chronic 3;	
	01-2119451093-47	H412	
2-Butanone peroxide; Reaction	1338-23-4	Org. Perox. D; H242	>= 30 - < 35
mass of butane-2,2-diyl dihydrop-	700-954-4	Acute Tox. 4; H302	
eroxide and dioxydibutane-2,2-diyl	01-2119514691-43-	Acute Tox. 4; H332	
dihydroperoxide	0000	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	

For explanation of abbreviations see section 16.

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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
lf 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.
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 clothing 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 pler
	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.

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		Keep respirato Do NOT induce If symptoms pe	
4.2 Most	important symptoms a	ind effects, both ac	ute and delayed
Risk	S	Causes serious	lamaging fertility or the unborn child.
4.3 Indic	ation of any immediate	medical attention	and special treatment needed
	tment		atically and supportively.
SECTIC	N 5: Firefighting mea	sures	
5.1 Extin	guishing media		
	able extinguishing media	: Water spray je Alcohol-resista Carbon dioxide Dry chemical	nt foam
Uns med	uitable extinguishing ia	: High volume w	ater jet
5.2 Spec	ial hazards arising fron	n the substance or	mixture
-	cific hazards during fire-	 Risk of explosit Possible emiss lead to a dange Avoid confinem Contact with in tures exceeding composition re may auto-ignite The product bu Flash back pos Do not allow ru courses. Vapours may fu The product wi water. 	on if heated under confinement. sion of gaseous decomposition products may erous pressure build-up. hent. compatible materials or exposure to tempera- g SADT may result in a self-accelerating de- action with release of flammable vapors which e.
5.3 Advid	ce for firefighters		
	-	· Wear self-cont	ained breathing apparatus for firefighting if nec-

Special protective equipment : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

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Specific extinguishing meth- ods		 Do not use a solid water stream as it may scatter and spread fire. Remove undamaged containers from fire area if it is safe to do so. Use water spray to cool unopened containers. 		
Further information		cumstances and Use a water spr Collect contamir must not be disc Fire residues an	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. Ind contaminated fire extinguishing water must n 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 equipment recommendations. Beware of vapours accumulating to form explosive concentrations. 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. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for cont	ainment and cleaning up
Methods for cleaning up	 Contact with incompatible substances can cause decomposition 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 material, 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 disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

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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	:	Store in original container. Keep containers tightly closed in a
areas and containers		cool, well-ventilated place. Store in cool place. Keep in a well-
		ventilated place. Contamination may result in dangerous pres-
		sure 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 de-
		composition. Electrical installations / working materials must

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				echnological safety standards. Containers I must be carefully resealed and kept upright e.
	Advice on common storage	:		combustible materials. strong acids, bases, heavy metal salts and lbstances.
	Storage class (TRGS 510)	:	5.2	
	Recommended storage tem- perature	:	< 30 °C	
	Further information on stor- age stability	:	Stable under reco	ommended storage conditions.
7.3 \$	Specific end use(s)			
	Specific use(s)	:	For further inform sheet.	ation, refer to the product technical data

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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 butane-2,2-diyl dihy- droperoxide and diox- ydibutane-2,2-diyl dihydroperoxide	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

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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
Break through time :	Nitrile rubber 30 min 0,40 mm Equipment should conform to EN 374
Material : Break through time : Glove thickness : Directive :	butyl-rubber 480 min 0,47 mm Equipment should conform to EN 374

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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		:	resistance data ar potential. Additional body ga task being perform posable suits) to a Wear as appropria	a 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. tte: ntistatic protective clothing.		
Respiratory protection		:	In the case of dust or aerosol formation use respirator with approved filter. Respirator with combination filter for vapour/particulate (EN 141)			
Fi	lter type	:	ABEK-filter			
Prote	ctive 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	:	red
Odour	:	characteristic
Odour Threshold	:	not determined

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Ν	Melting	point/range	:	< -25 ℃	
E	Boiling p	point/boiling range	:	Decomposition:	Decomposes below the boiling point.
F	Flamma	bility	:	Not applicable	
		xplosion limit / Upper ility limit	:	Upper explosion not determined	limit
		xplosion limit / Lower ility limit	:	Lower explosion not determined	limit
F	Flash po	pint	:	84 °C Method: ISO 367	'9, closed cup
		elerating decomposi- perature (SADT)	:	temperature at w	H.4 lerating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
þ	рН		:	substance/mixtu	re is non-soluble (in water)
١	Viscosit Visco	y osity, dynamic	:	13 mPa.s (20 °C)
	Visco	osity, kinematic	:	not determined	
ŝ	Solubilit <u>;</u> Wate	y(ies) er solubility	:	insoluble	
	Solu	pility in other solvents	:	Solvent: Phthalat Description: com	
				Solvent: Esters Description: com	pletely miscible
	Partition	coefficient: n- water	:	Not applicable	

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	Vapour pressure	: No data avail	able
	Relative density	: not determine	ed
	Density	: 1,01 g/cm3 (20 °C)
	Relative vapour density	: not determine	ed
9.2	Other information		
	Explosives	: Not explosive In use, may f	e form flammable/explosive vapour-air mixture.
	Oxidizing properties	: The substand Organic pero	ce or mixture is not classified as oxidizing. xide
	Flammability (liquids)	: Flammable li	quid, Organic peroxide
	Self-ignition	: The substan	ce or mixture is not classified as pyrophoric.
	Self-heating substances	: The substan	ce or mixture is not classified as self heating.
	Refractive index	: 1,438 at 20 °	с

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

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Haza	ardous reactions	: Vapours ma	y form explosive mixture with air.
10.4 Con	ditions to avoid		
Cond	ditions to avoid	Contact with tion at or be	and sparks.
10.5 Inco	ompatible materials		
Mate	erials 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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

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 isobut	yra	te:
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-

tion toxicity Remarks: No mortality observed at this dose.

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	Acute	dermal toxicity	:	LD50 (Guinea pig Method: Expert ju Assessment: The toxicity	
		none peroxide; Rea ,2-diyl dihydroperox		mass of butane-	2,2-diyl dihydroperoxide and dioxydibu-
	Acute	oral toxicity	:	Acute toxicity esti Method: Expert ju	
	Acute	inhalation toxicity	:	short term inhalat	h dust/mist idgement component/mixture is moderately toxic after
	Acute	dermal toxicity	:	Acute toxicity esti Method: Expert ju	mate: 2.500 mg/kg Idgement
	Skin c	orrosion/irritation			
	Cause	s severe burns.			
	<u>Produ</u>	<u>ct:</u>			
	Remar	ks	:	Extremely corrosi	ve and destructive to tissue.
	<u>Comp</u>	onents:			
	Trime	thylpentanediol isob	utyra	te:	
	•		:	Guinea pig	
	Expos Result	ure time	:	24 h No skin irritation	
	Remar		:		e data, the classification criteria are not met.
		none peroxide; Rea ,2-diyl dihydroperox		mass of butane-	2,2-diyl dihydroperoxide and dioxydibu-
	Specie Result	S	:	Rabbit Causes burns.	
		is eye damage/eye i		ion	
		s serious eye damage	÷.		
	Produ				
	Remar	KS	:	May cause irrever	sible eye damage.

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Components:

	t\/r~	to ·
Trimethylpentanediol isobut	tyra	
Species Exposure time	÷	Rabbit 24 h
Result	:	
Result	•	No eye irritation
2-Butanone peroxide; React tane-2,2-diyl dihydroperoxid		mass of butane-2,2-diyl dihydroperoxide and dioxydibu-
Result	:	Irreversible effects on the eye
Respiratory or skin sensitisa	atio	n
Skin sensitisation		
Not classified due to lack of d	ata.	
Respiratory sensitisation		
Not classified due to lack of da	ata.	
Components:		
Trimethylpentanediol isobut	tyra	te:
Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.
2-Butanone peroxide; React tane-2,2-diyl dihydroperoxid		mass of butane-2,2-diyl dihydroperoxide and dioxydibu-
Species		Guinea pig
Method	:	OECD Test Guideline 406
Result	÷	Does not cause skin sensitisation.
	•	
Assessment	:	Harmful if swallowed., Harmful if inhaled.
Germ cell mutagenicity		
Not classified due to lack of da	ata.	

Trimethylpentanediol isobutyrate:

Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
	Test Type: Ames test Method: Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test) Result: negative
	Test Type: Chromosome aberration test in vitro

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Method: OECD Test Guideline 473 Result: negative

2-Butanone peroxide; Reaction tane-2,2-diyl dihydroperoxide:	n mass of butane-2,2-diyl dihydroperoxide and dioxydibu-
Genotoxicity in vitro :	Method: OECD Test Guideline 473 Result: negative
	Method: OECD Test Guideline 471 Result: negative
	Method: OECD Test Guideline 476 Result: negative
Carcinogenicity	
Not classified due to lack of data	
<u>Components:</u>	
2-Butanone peroxide; Reaction tane-2,2-diyl dihydroperoxide:	n mass of butane-2,2-diyl dihydroperoxide and dioxydibu-
Remarks :	This information is not available.
Reproductive toxicity	
Suspected of damaging fertility of	r the unborn child
Components:	
-	
Trimethylpentanediol isobutyra	
Effects on foetal develop- : ment	Test Type: One-generation reproduction toxicity study Species: Rat
	Application Route: Ingestion
	Method: OECD Test Guideline 414
	Result: negative
Reproductive toxicity - As- : sessment	Suspected of damaging fertility or the unborn child., Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.
2-Butanone peroxide; Reaction tane-2,2-diyl dihydroperoxide:	n mass of butane-2,2-diyl dihydroperoxide and dioxydibu-
Effects on fertility :	Species: Rat Application Route: oral (gavage) General Toxicity - Parent: NOAEL: 50 mg/kg body weight Method: OECD Test Guideline 421

Result: negative

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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

Aspiration toxicity

Not classified due to lack of data.

Components:

Trimethylpentanediol isobutyrate:

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

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	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
		levels of 0.1% or higher.

Further information

Product:

Remarks

: No data available

Components:

Trimethylpentanediol isobutyrate:					
Remarks	:	No data available			

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



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SECTION 12: Ecological information

12.1 Toxicity

Components:

<u></u>					
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.			
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.			
2-Butanone peroxide; Reacti 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			

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



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			F (1 70)	
			Exposure time: 72 h Method: OECD Test Guideline 201	
			NOEC (Pseudokirchneriella subcapitata (green algae)): 2,	1
			mg/l	1
			Exposure time: 72 h Method: OECD Test Guideline 201	
	Toxicit	y to microorganisms	: EC50 (Bacteria): 48 mg/l	
			Exposure time: 0,5 h Method: OECD Test Guideline 209	
12.2	Persis	tence and degradab	lity	
	Compo	onents:		
	Trimet	hylpentanediol isobu	tyrate:	
	Biodeg	radability	: Result: rapidly biodegradable Exposure time: 28 d	
			Method: OECD Test Guideline 301B	
	2 Bute	nono norovido. Door	tion more of butone 2.2 dividually disudrene revide and disuvidibu	
		,2-diyl dihydroperoxi	tion mass of butane-2,2-diyl dihydroperoxide and dioxydibu de:	u-
	Biodeg	radability	: Result: Readily biodegradable. Method: OECD Test Guideline 301D	
12.3	Bioac	cumulative potential		
	Compo	onents:		
	Trimet	hylpentanediol isobu	tyrate:	
	Bioacc	umulation	: Species: Fish Bioconcentration factor (BCF): 1,95	
	Partitic octano	n coefficient: n- I/water	: log Pow: 4,91 (25 °C)	
		none peroxide; Reac ,2-diyl dihydroperoxi	tion mass of butane-2,2-diyl dihydroperoxide and dioxydibu de:	u-
	Partitic octano	n coefficient: n- I/water	: log Pow: < 0,3 (25 °C)	
12 <i>A</i>	Mohili	ty in soil		
12.4		a available		
12.5	Result	s of PBT and vPvB a	ssessment	
	Drader	- 1-		

Product:

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	Assess	sment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
12.6	Endoc	rine disrupting prope	ertie	es.	
	<u>Produc</u>	<u>ct:</u>			
	Assess	sment	:	ered to have endo REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to '(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
12.7	Other	adverse effects			
	<u>Produc</u>	<u>ct:</u>			
	Additio mation	nal ecological infor-	:	unprofessional ha Toxic to aquatic li	hazard cannot be excluded in the event of indling or disposal. fe. c life with long lasting effects.

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.
		According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
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.

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SECTION 14: Transport information

14.1 UN number or ID number		
ADN	:	UN 3105
ADR	:	UN 3105
RID	:	UN 3105
IMDG	:	UN 3105
ΙΑΤΑ	:	UN 3105
14.2 UN proper shipping name		
ADN	:	ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
ADR	:	ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
RID	:	ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
IMDG	:	ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
ΙΑΤΑ	:	Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s))
14.3 Transport hazard class(es)		
		Class Subsidiary risks
ADN	:	5.2
ADR	:	5.2
RID	:	5.2
IMDG	:	5.2
ΙΑΤΑ	:	5.2 HEAT
14.4 Packing group		
ADN Packing group Classification Code Labels	:	Not assigned by regulation P1 5.2
ADR Packing group Classification Code Labels Tunnel restriction code	:	Not assigned by regulation P1 5.2 (D)
RID Packing group	:	Not assigned by regulation

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Ha	assification Code azard Identification Number bels	:	P1 539 5.2
Pa La	DG acking group bels nS Code	-	Not assigned by regulation 5.2 F-J, S-R
Pa air Pa	TA (Cargo) acking instruction (cargo craft) acking group bels	:	570 Not assigned by regulation Organic Peroxides, Keep Away From Heat
Pa ge Pa	TA (Passenger) acking instruction (passen- r aircraft) acking group bels		570 Not assigned by regulation Organic Peroxides, Keep Away From Heat
14.5 Er	vironmental hazards		
AD	DN		20

Environmentally	hazardous	:	no
ADR Environmentally	hazardous	:	no
RID Environmentally	hazardous	:	no
IMDG Marine pollutant		:	no

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

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



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th	ne marl		nanufacture, placing or dangerous substances WII)		:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
						If you intend to use this product as tattoo ink, please contact your ven- dor.
		- Candidate List of Su for Authorisation (Arti	bstances of Very High icle 59).		:	Not applicable
		on (EC) No 1005/2009 e ozone layer	on substances that d	e-	:	Not applicable
	egulati ants (re		n persistent organic pol	lu-	:	Not applicable
m	nent an		of the European Parlia ing the export and imp		:	Not applicable
	EACH	- List of substances s XIV)	ubject to authorisation		:	Not applicable
pe	ean Pa ontrol o	III: Directive 2012/18/E Irliament and of the Co of major-accident haza us substances.	ouncil on the		AND	F-REACTIVE SUBSTANCES MIXTURES and ORGANIC ROXIDES

Water hazard class (Germany) : WGK 1 slightly hazardous to water Classification according to AwSV, Annex 1 (5.2)

Other regulations:

Gefahrgruppe nach TRGS 741: II (German regulatory requirements)

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

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

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AIIC (AU)			: All components are listed on the inventory, regulatory obliga- tions/restrictions apply				
DSL (CA)		: All co	All components of this product are on the Canadian DSL				
KECI	KECI (KR)		On the inventory, or in compliance with the inventory				
IECSC (CN)		: On th	e inventory, c	or in compliance with the inventory			
DSL KECI	(CA) (KR)	tions/ : All co : On th	mponents of e inventory, o	oply this product are on the Canadian DSL or in compliance with the inventory			

15.2 Chemical safety assessment

This information is not available.

SECTION	16: Other	information
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Further information				
Other information	:	This safety datasheet only contains information relating to safety and does not replace any product information or prod- uct specification. These safety instructions also apply to empty packaging which may still contain product residues. The hazards on the label also apply to residues in the con- tainer.		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/		
Classification of the mixtur	e:	Classification procedure:		
Org. Perox. D	H24	42 Based on product data or assessment		
Acute Tox. 4	H3	02 Calculation method		
Acute Tox. 4	H3	32 Calculation method		
Skin Corr. 1B	H3	14 Calculation method		
Eye Dam. 1	H3	18 Calculation method		
Repr. 2	H3	61 Calculation method		
Aquatic Chronic 3	H4	12 Calculation method		
Full text of H-Statements				
H242 :		Heating may cause a fire.		

H242	:	Heating may cause a fire.
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.

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H318 H332 H361 H412		:	Harmful if inhat Suspected of e	s eye damage. led. damaging fertility or the unborn child. latic life with long lasting effects.
Full te	ext of other abbrevia	ations		
Acute Tox. 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	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AllC - 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 Verv Bioaccumulative

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