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

1.1	Product identifier	
	Trade name	

: CUROX[®]M-312

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)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
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 effects.

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2.2 Label elements

Labelling (REGULATION (Hazard pictograms	EC) :	No 1272/2008)
Signal word	:	Danger
Hazard statements	:	 H226 Flammable liquid and vapour. H242 Heating may cause a fire. H302 + H332 Harmful if swallowed or if inhaled. H314 Causes severe skin burns and eye damage. H361 Suspected of damaging fertility or the unborn child. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	 Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
		Response: P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi- ately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre- sent and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P370 + P378 In case of fire: Use water spray, alcohol- resistant foam, dry chemical or carbon dioxide to extinguish.
Hazardous components whi Trimethylpentanediol isobut		

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. EC-No.	Classification	Concentration (% w/w)
	Index-No. Registration number		
Trimethylpentanediol isobutyrate	6846-50-0 229-934-9 01-2119451093-47	Repr. 2; H361 Aquatic Chronic 3; H412	>= 40 - < 45
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
Diacetone alcohol	123-42-2 204-626-7 603-016-00-1 01-2119473975-21	Eye Irrit. 2; H319 Repr. 2; H361 STOT SE 3; H335 (Respiratory system) 	>= 10 - < 15

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sion Revision D 26.07.2024	te: SDS Number: 60000000260	Date of last issue: 13.02.2023 Date of first issue: 20.07.2016	
Butanone	78-93-3 201-159-0 606-002-00-3 01-2119457290	Flam. Liq. 2; H225 >= 1 - Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	<
hydrogen peroxide	7722-84-1 231-765-0 008-003-00-9 01-2119485845	Ox. Liq. 1; H271 >= 2.5 · Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H332 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412	- <

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
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 wat 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 tissue 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 respirator Do NOT induce If symptoms pe	•
4.2 Most	important symptoms a	and effects, both ac	ute and delayed
Risk	s	Causes serious	amaging fertility or the unborn child.
	ation of any immediate		and special treatment needed atically and supportively.
nea		. near symptom	
SECTIO	N 5: Firefighting mea	asures	
5.1 Extin	guishing media		
Suita	able extinguishing media	: Water spray jet Alcohol-resistar Carbon dioxide Dry chemical	nt foam
Unsu medi	uitable extinguishing ia	: High volume wa	ater jet
5.2 Spec	ial hazards arising from	n the substance or i	mixture
-	cific hazards during fire-	 Risk of explosic Possible emiss lead to a dange Avoid confinem Contact with ind tures exceeding composition rea may auto-ignite The product bu Flash back pos Do not allow run courses. Vapours may fo The product wil water. 	on if heated under confinement. ion of gaseous decomposition products may rous pressure build-up. ent. compatible materials or exposure to tempera- g SADT may result in a self-accelerating de- action with release of flammable vapors which
5 3 Advic	e for firefighters		
		\\\\ \\\	signed broothing opportug for firefighting if noo

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

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Speci ods	fic extinguishing meth-	fire. Remove undama so.	lid water stream as it may scatter and spread aged containers from fire area if it is safe to do v to cool unopened containers.
Furth	er 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. nd 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 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. Evacuate personnel to safe areas. 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 conta	inment 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-

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mine which regulations are applicable.

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 application 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	e :	Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in cool 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 installa-

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			safety standards	naterials must comply with the technological . Containers which are opened must be care- d kept upright to prevent leakage.
Ad	dvice on common storage	:		combustible materials. strong acids, bases, heavy metal salts and ubstances.
	ecommended storage tem- erature	:	< 30 °C	
	rther information on stor- le stability	:	Stable under reco	ommended storage conditions.
7.3 Sp	ecific end use(s)			
Sp	pecific use(s)	:	For further inform sheet.	nation, 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	
Diacetone alcohol	123-42-2	OELV - 8 hrs (TWA)	50 ppm 240 mg/m3	IE OEL	
Butanone	78-93-3	STEL	300 ppm 900 mg/m3	2000/39/EC	
	Further inform	ation: Indicative			
		TWA	200 ppm 600 mg/m3	2000/39/EC	
	Further inform	ation: Indicative			
		OELV - 8 hrs (TWA)	200 ppm 600 mg/m3	IE OEL	
	Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body				
		OELV - 15 min (STEL)	300 ppm 900 mg/m3	IE OEL	
	Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body				

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hydrogen peroxide	7722-84-1	OELV - 8 hrs (TWA)	1 ppm 1.5 mg/m3	IE OEL
		OELV - 15 min (STEL)	2 ppm 3 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 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
Diacetone alcohol	Workers	Inhalation	Acute local effects	240 mg/m3
	Workers	Skin contact	Long-term systemic effects	9.4 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	66.4 mg/m3
	Workers	Inhalation	Long-term local ef- fects	66.4 mg/m3
Butanone	Workers	Skin contact	Long-term systemic effects	1161 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	600 mg/m3
hydrogen peroxide	Workers	Inhalation	Acute local effects	3 mg/m3
<u> </u>	Workers	Inhalation	Long-term local ef- fects	1.4 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-Butanone peroxide; Reaction	Fresh water	0.0056 mg/l
mass of butane-2,2-diyl dihy- droperoxide and dioxydibutane- 2,2-diyl dihydroperoxide		
	Marine water	0.00056 mg/l

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0.0126 mg/l

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	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/k
	Soil	0.0142 mg/kg
Trimethylpentanediol isobutyrate	Fresh water	0.014 mg/l
	Marine water	0.001 mg/l
	Fresh water sediment	5.29 mg/kg dr
		weight (d.w.)
	Marine sediment	0.529 mg/kg c
		weight (d.w.)
	Soil	1.05 mg/kg dr
		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/k
	Soil	0.0142 mg/kg
Diacetone alcohol	Fresh water	2 mg/l
	Marine water	0.2 mg/l
	Sewage treatment plant	82 mg/l
	Fresh water sediment	9.06 mg/kg dr
		weight (d.w.)
	Marine sediment	0.91 mg/kg dr weight (d.w.)
	Soil	0.63 mg/kg dr weight (d.w.)
Butanone	Fresh water	55.8 mg/l
	Marine water	55.8 mg/l
	Intermittent use/release	55.8 mg/l
	Sewage treatment plant	709 mg/l
	Fresh water sediment	284.7 mg/kg c
		weight (d.w.)
	Soil	22.5 mg/kg
hydrogen peroxide	Sewage treatment plant	4.66 mg/l
	Fresh water	0.0126 mg/l
	Marine sediment	0.047 mg/l
	Fresh water sediment	0.047 mg/l
		v

Marine water

Soil

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8.2 Exposure controls

Engineering measures Minimize workplace exposure co	ncontrations
Personal protective equipmen	
Eye/face protection :	
Hand protection Material : Break through time : Glove thickness : Directive :	Nitrile rubber 30 min 0.40 mm Equipment should conform to EN 374
	butyl-rubber 480 min 0.47 mm Equipment should conform to EN 374
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 resistance data and an assessment of the local exposure potential. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable 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

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			approved filter Respirator with 141)	: h combination filter for vapour/particulate (EN
Fil	lter type	:	ABEK-filter	
Prote	ctive measures	:	•••••••	otective equipment must be selected according ration and amount of the dangerous substance workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	not determined
Melting point/range	:	< -25 °C
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flammability	:	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
Flash point	:	57 °C Method: ISO 3679, closed cup

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	Auto-ig	nition temperature	:	not determined	
		celerating decomposi- nperature (SADT)	:	temperature at w	H.4 lerating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	рН		:	6.5	
	Viscosi Visc	ty cosity, dynamic	:	13 mPa.s (20 °C)
	Visc	cosity, kinematic	:	not determined	
	Solubili Wat	ty(ies) er solubility	:	ca. 6.5 g/l(20 °C slightly soluble	>)
	Solu	ubility in other solvents	:	Solvent: Phthalat Description: com	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	< 1.5 hPa (25 °C (for a component	
	Relative	e density	:	not determined	
	Density	,	:	1.01 g/cm3 (20 °	C)
	Relative	e vapour density	:	not determined	
9.2	Other ir Explosi	nformation ves	:	Not explosive	
	Oxidizii	ng properties	:		flammable/explosive vapour-air mixture. r mixture is not classified as oxidizing.

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Flar	nmability (liquids)	:	Flammable liquid	l and vapour., Organic peroxide
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.
Self	heating substances	:	Not applicable	
			The substance o	r mixture is not classified as self heating.
whic	stances and mixtures, ch in contact with water, t flammable gases	:	The substance o contact with wate	r mixture does not emit flammable gases in er.
Des	ensitised explosives	:	Not applicable	
Refi	active index	:	1.431 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.

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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: 1,515 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 4.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:		
Trimethylpentanediol isobu	utyrat	e:
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.
Acute dermal toxicity	:	LD50 (Guinea pig): > 2,000 mg/kg Method: Expert judgement Assessment: The substance or mixture has no acute dermal

toxicity

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

tane-z,z-utyr unryuroperoxide.	•	
Acute oral toxicity :		Acute toxicity estimate: 500 mg/kg Method: Expert judgement
Acute inhalation toxicity :		Acute toxicity estimate: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Assessment: The component/mixture is moderately toxic after short term inhalation. Remarks: Based on data from similar materials
Acute dermal toxicity :		Acute toxicity estimate: 2,500 mg/kg Method: Expert judgement
Diacetone alcohol:		
Acute oral toxicity :		LD50 (Rat): 3,002 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity :		LC0 (Rat, male and female): >= 7.6 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: No mortality observed at this dose.
Acute dermal toxicity :		LD0 (Rat): > 1,875 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose.
Butanone:		
Acute oral toxicity :		LD50 (Rat): 2,193 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity :		Remarks: No data available
Acute dermal toxicity :		LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on available data, the classification criteria are not met.
hydrogen peroxide:		
Acute oral toxicity :		LD50 (Rat, male and female): 431 mg/kg Method: Expert judgement

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





4	Revision Date: 26.07.2024		95 Number: 0000000260	Date of last issue: 13.02.2023 Date of first issue: 20.07.2016
			Assessment: The single ingestion	ne component/mixture is moderately toxic after
Acute	inhalation toxicity	:	Exposure time: Test atmospher Assessment: The short term inha	e: dust/mist ne component/mixture is moderately toxic after lation. ed on harmonised classification in EU regulation
Acute	dermal toxicity	:	LD50 (Rabbit): Remarks: No a icity tests.	9,200 mg/kg dverse effect has been observed in acute tox-
Skin c	orrosion/irritation			
Causes	s severe burns.			
<u>Produ</u>	<u>ct:</u>			
Remar	ks	:	Extremely corro	sive and destructive to tissue.
<u>Comp</u>	onents:			
	thylpentanediol isob	outyra		
Specie	es ure time	:	Guinea pig 24 h	
Result		÷	No skin irritatio	1
Remar	ks	:	Based on availa	ble data, the classification criteria are not me
	none peroxide; Rea 2,2-diyl dihydroperox		mass of butan	e-2,2-diyl dihydroperoxide and dioxydibu-
Specie	es	:	Rabbit	
D !'			Causes burns.	
Result		•		
	tone alcohol:			
	tone alcohol:	:	Rabbit	
Diacet Specie Method	t one alcohol: es d	:	OECD Test Gu	
Diacet Specie	t one alcohol: es d	:		
Diacet Specie Method	t one alcohol: es d	:	OECD Test Gu	
Diacet Specie Methoo Result Butane Specie	tone alcohol: es d one: es	:	OECD Test Gu No skin irritation Rabbit	1
Diacet Specie Methoo Result Butane Specie Assess	tone alcohol: es d one: es sment		OECD Test Gu No skin irritation Rabbit Repeated expo	n sure may cause skin dryness or cracking.
Diacet Specie Method Result Butane Specie Assess Method	tone alcohol: es d one: es sment d		OECD Test Gu No skin irritation Rabbit Repeated expo OECD Test Gu	n sure may cause skin dryness or cracking. ideline 404
Diacet Specie Methoo Result Butane Specie Assess	tone alcohol: es d one: es sment d		OECD Test Gu No skin irritation Rabbit Repeated expo	n sure may cause skin dryness or cracking. ideline 404
Diacet Specie Method Result Butane Specie Assess Method Result	tone alcohol: es d one: es sment d		OECD Test Gu No skin irritation Rabbit Repeated expo OECD Test Gu	n sure may cause skin dryness or cracking. ideline 404

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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 **Diacetone alcohol:** Species : Rabbit Method **OECD** Test Guideline 405 : Result : Irritation to eyes, reversing within 21 days Butanone: Species : Rabbit Method **OECD** Test Guideline 405 : Result : Eye irritation hydrogen peroxide: Result Irreversible effects on the eye : Remarks hydrogen peroxide, 35% : 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. :

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

Species Method Result	::	Guinea pig OECD Test Guideline 406 Does not cause skin sensitisation.
Assessment	:	Harmful if swallowed., Harmful if inhaled.
Diacetone alcohol: Species Method Result	: : :	Guinea pig OECD Test Guideline 406 Does not cause skin sensitisation.
Butanone: Exposure routes Species Method Result		Skin contact Guinea pig OECD Test Guideline 406 Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

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 Method: OECD Test Guideline 473 Result: negative
2-Butanone peroxide; Reaction tane-2,2-diyl dihydroperoxide:	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

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Diacetone alcohol: Genotoxicity in vitro	:	Method: OECD Test Guideline 476 Result: negative
		Method: OECD Test Guideline 471 Result: negative
		Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo	:	Remarks: Not classified due to data which are conclusive although insufficient for classification.
Germ cell mutagenicity- As- sessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Butanone:		
Genotoxicity in vitro	:	Method: OECD Test Guideline 471 Result: negative
		Method: OECD Test Guideline 476 Result: negative
		Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo	:	Species: Mouse Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative
hydrogen peroxide:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative positive Remarks: Information taken from reference works and the literature.
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive Remarks: Information taken from reference works and the literature.
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse (male and female) Method: OECD Test Guideline 474

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			Result: negativ Remarks: hydr	e ogen peroxide, 35%
Germ sessr		:	Based on avail	able data, the classification criteria are not met
	nogenicity lassified due to lack of	data.		
<u>Com</u>	oonents:			
	anone peroxide; Rea 2,2-diyl dihydroperox		mass of butar	e-2,2-diyl dihydroperoxide and dioxydibu-
Rema	arks	:	This informatio	n is not available.
Diace	etone alcohol:			
Carcii ment	nogenicity - Assess-	:	Weight of evide cinogen	ence does not support classification as a car-
-	ogen peroxide: nogenicity - Assess-	:	Carcinogenicity	 classification not possible from current data.
Repr	oductive toxicity			
Susp	ected of damaging ferti	lity or	the unborn chil	d.
<u>Com</u>	<u>oonents:</u>			
	ethylpentanediol isob	-		
ment	s on foetal develop-	:	Species: Rat Application Ro	D Test Guideline 414
Repro sessr	oductive toxicity - As- nent	:	evidence of ad	damaging fertility or the unborn child., Some verse effects on sexual function and fertility, lopment, based on animal experiments.
	anone peroxide; Rea 2,2-diyl dihydroperox		mass of butar	e-2,2-diyl dihydroperoxide and dioxydibu-
Effect	s on fertility	:	General Toxici	ute: oral (gavage) ty - Parent: NOAEL: 50 mg/kg body weight) Test Guideline 421 e
Diace	etone alcohol:			

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Effec	ts on fertility	:	Species: Rat Application Route	· oral (davade)		
			General Toxicity -	Parent: NOAEL: 300 mg/kg body weight F1: NOAEL: 300 mg/kg body weight		
	Effects on foetal develop- : ment		Species: Rat Application Route: inhalation (vapour) General Toxicity Maternal: NOAEL: 4.106 Embryo-foetal toxicity: NOAEL: 12,292 Method: OECD Test Guideline 414			
	oductive toxicity - As- ment	:		f adverse effects on sexual function and development, based on animal experiments.		
Buta	none:					
Effec	ts on fertility	:	General Toxicity - General Toxicity F Method: OECD Te	: oral (drinking water) Parent: NOAEL: 10,000 mg/l F1: NOAEL: 10,000 mg/l est Guideline 416 on data from similar materials		
			General Toxicity - Method: OECD Te	: oral (drinking water) Parent: LOAEL: 20,000 mg/l est Guideline 416 on data from similar materials		
Effec ment	ts on foetal develop-	:	weight	Maternal: NOAEC: ca. 1,002 mg/kg body DAEC Parent: ca. 1,002 mg/kg body weight		
hvdr	ogen peroxide:					
Repr	oductive toxicity - As- ment	:	No data available			
	T - single exposure classified due to lack of da	ata.				
<u>Com</u>	ponents:					
Diac	etone alcohol:					
-	et Organs essment	:	Respiratory syste May cause respira			

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Butanone:

Assessment

: May cause drowsiness or dizziness.

hydrogen peroxide:

Target Organs	:	Respiratory Tract
Assessment	:	May cause respiratory irritation.

STOT - repeated exposure

Not classified due to lack of data.

Components:

hydrogen peroxide:

Remarks :	No	data available
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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

Diacetone alcohol:

Species	:	Rat
NOAEL	:	1.04 mg/l
LOAEL	:	4.685 mg/l
Application Route	:	inhalation (vapour)
Exposure time	:	6 w
Method	:	OECD Test Guideline 412
Species	:	Rat
NOAEL	:	100 mg/kg
Application Route	:	oral (gavage)
Method	:	OECD Test Guideline 422
hydrogen peroxide:		

Species:Mouse, femaleNOAEL:37 mg/kgApplication Route:oral (drinking water)Exposure time:90 dRemarks:hydrogen peroxide, 35%

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Species	: Mouse, males
NOAEL	: 26 mg/kg
Application Route	: oral (drinking water)
Exposure time	: 90
Remarks	: hydrogen peroxide, 35%

Aspiration toxicity

Not classified due to lack of data.

Components:

Trimethylpentanediol isobutyrate:

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

hydrogen peroxide:

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

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.

Further information

Product:

Remarks

: Solvents may degrease the skin.

Components:

Trimethylpentanediol isobu	utyra	te :
Remarks	:	No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Trimethylpentanediol isobutyrate:

Toxicity to fish : NOEC (Fish): >= 6 mg/l

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				Exposure time: 96 Method: OECD Te	
	-	to daphnia and other invertebrates	:	EC50 (Daphnia (w Exposure time: 48	/ater flea)): >= 1.46 mg/l s h
				NOEC (Daphnia (Exposure time: 21	water flea)): 0.7 mg/l d
	Toxicity plants	to algae/aquatic	:	EC50 (Chlorella p Exposure time: 72 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	LOEC: 0.7 mg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)
	Ecotox	icology Assessment			
	Acute a	quatic toxicity	:	This product has r	no known ecotoxicological effects.
	Chronic	aquatic toxicity	:	Harmful to aquatic	life with long lasting effects.
		none peroxide; React 2-diyl dihydroperoxid		mass of butane-2	2,2-diyl dihydroperoxide and dioxydibu-
	Toxicity		:	LC50 (Poecilia reti 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	
					nagna (Water flea)): 26.7 mg/l
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50 (Bacteria): 4	18 mg/l

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				Exposure time: 0. Method: OECD Te	
	Diaceto	one alcohol:			
	Toxicity	∕ to fish	:	LC50 (Oryzias lati Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	v to algae/aquatic	:	EbC50 (Pseudokir 1,000 mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
	Butano	no.			
	Toxicity		:	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
	-	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	v to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 96 Method: OECD Te	
	Toxicity	to microorganisms	:	NOEC (Pseudomo Exposure time: 16 Method: DIN 38 4	
	hydrog	en peroxide:			
	Toxicity	-	:	LC50 (Pimephales Exposure time: 96	promelas (fathead minnow)): 16.4 mg/l h
		to daphnia and other invertebrates	:	LC50 (Daphnia pu Exposure time: 48	llex (Water flea)): 2.4 mg/l s h
	Toxicity plants	v to algae/aquatic	:	EC50 (Skeletonen Exposure time: 72	na costatum (marine diatom)): 1.38 mg/l ! h

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			NOEC (Skelet Exposure time	onema costatum (marine diatom)): 0.63 mg/l e: 72 h
Тох	cicity to microorganisms	:	Exposure time	ed sludge): > 1,000 mg/l e: 3 h D Test Guideline 209
aqu	cicity to daphnia and other atic invertebrates (Chron- oxicity)	:	Exposure time	
12.2 Pe	rsistence and degradabi	lity		
Co	mponents:			
	methylpentanediol isobu	tyra	te:	
Bio	degradability	:	Exposure time	biodegradable e: 28 d D Test Guideline 301B
	Butanone peroxide; Reac le-2,2-diyl dihydroperoxid		mass of buta	ne-2,2-diyl dihydroperoxide and dioxydibu-
Bio	degradability	:		y biodegradable. D Test Guideline 301D
Dia	cetone alcohol:			
	degradability	:		y biodegradable. D Test Guideline 301
But	tanone:			
	degradability	:		y biodegradable. D Test Guideline 301D
hyd	drogen peroxide:			
Bio	degradability	:	Result: Readil	y biodegradable.
12.3 Bio	paccumulative potential			
Co	mponents:			
Tri	methylpentanediol isobu	tyra	te:	
Bio	accumulation	:	Species: Fish Bioconcentrati	on factor (BCF): 1.95
	rtition coefficient: n- anol/water	:	log Pow: 4.91	(25 °C)

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2-Butanone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide: : log Pow: < 0.3 (25 °C) Partition coefficient: noctanol/water **Diacetone alcohol:** : log Pow: -0.09 (20 °C) Partition coefficient: noctanol/water Butanone: Partition coefficient: n-: log Pow: 0.3 (40 °C) octanol/water hydrogen peroxide: Partition coefficient: nlog Pow: -1.57 (20 °C) : octanol/water Remarks: Information refers to the main component. Calculation 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.

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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.

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 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))

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14.3 Transport hazard class(es)

			Class	Subsidiary risks
	ADR	:	5.2	
	RID	:	5.2	
	IMDG	:	5.2	
	ΙΑΤΑ	:	5.2	HEAT
14.4	Packing group			
	ADR Packing group Classification Code Labels Tunnel restriction code	: :	Not assigned by regul P1 5.2 (D)	ation
	RID Packing group Classification Code Hazard Identification Number Labels	:	Not assigned by regul P1 539 5.2	ation
	IMDG Packing group Labels EmS Code	:	Not assigned by regul 5.2 F-J, S-R	ation
	IATA (Cargo) Packing instruction (cargo aircraft) Packing group Labels	:	570 Not assigned by regul Organic Peroxides, K	
	IATA (Passenger) Packing instruction (passen- ger aircraft) Packing group	:	570 Not assigned by regul	ation
	Labels	:	Organic Peroxides, K	eep Away From Heat
14.5	Environmental hazards			
	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

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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

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 75, 3
		If you intend to use this product as tattoo ink, please contact your ven- dor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) 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	expl	0-
This product is regulated by Regulation (EU) 2019/1148: a cious transactions, and significant disappearances and the should be reported to the relevant national contact point.		

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the AND MIXTURES and ORGANIC

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control of major-accident hazards involving dangerous substances.

PEROXIDES

Other regulations:

Gefahrgruppe nach TRGS 741: II (German regulatory requirements)

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.

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

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

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Further information

Other information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

:

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		may still conta	instructions also apply to empty packaging which ain product residues. on the label also apply to residues in the con-
	es of key data used to ile the Safety Data		ical data, data from raw material SDSs, OECD l search results and European Chemicals Agen- a.europa.eu/
Class	ification of the mixtu	e:	Classification procedure:
Flam.	Liq. 3	H226	Based on product data or assessment
	Perox. D	H242	Based on product data or assessment
•	Tox. 4	H302	Calculation method
	Tox. 4	H332	Calculation method
	Corr. 1B	H314	Calculation method
			Calculation method
•	Dam. 1	H318	Calculation method
Repr.	ic Chronic 3	H361 H412	Calculation method
	ext of H-Statements		
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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CUROX[®]M-312

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IE OEL

		Exposure Limit Values - Code of Practice, Schedule 1 and 2
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
IE OEL / OELV - 8 hrs (TWA)	:	Occupational exposure limit value (8-hour reference period)
IE OEL / OELV - 15 min	:	Occupational exposure limit value (15-minute reference peri-
(STEL)		od)

: List of Chemical Agents and Carcinogens with Occupational

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 Very Bioaccumulative

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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