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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

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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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

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2.2 Label elements

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

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	 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 immediately 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 present 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 wh	ich n		

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

2.3 Other hazards

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

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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	1338-23-4	Org. Perox. D;	>= 30 - < 35
	700-954-4	H242	
	01-2119514691-43-	Acute Tox. 4; H302	
	0000	Acute Tox. 4; H332	
		Skin Corr. 1B;	
		H314	
		Eye Dam. 1; H318	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	 Take off contaminated clothing and shoes immediately. Call a physician immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing
If inhaled	:	 Administer oxygen if breathing is difficult or cyanosis is 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.

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		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 difficul ty. In case of contact, immediately flush skin with plenty of water 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 cas	se 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 plenty 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.
lf swa	llowed	 Call a physician immediately. Rinse mouth thoroughly with water. Keep respiratory tract clear. Do NOT induce vomiting. If symptoms persist, call a physician.
4.2 Most i	mportant symptoms	and effects, both acute and delayed
Risks		 Harmful if swallowed or if inhaled. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Causes severe burns.
4 3 Indica	tion of any immedia	te medical attention and special treatment needed
Treatr	-	: Treat symptomatically and supportively.
	N 5: Firefighting me	asures

Suitable extinguishing media	:	Water spray jet
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical

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Un: me	suitable extinguishing dia	:	High volume wate	er jet
5.2 Spe	cial hazards arising from	h the	e substance or mi	xture
Specific hazards during fire- fighting		:	Risk of explosion if heated under confinement. Possible emission of gaseous decomposition products mailead to a dangerous pressure build-up. Avoid confinement. Contact with incompatible materials or exposure to temper tures exceeding SADT may result in a self-accelerating de composition reaction with release of flammable vapors white may auto-ignite. The product burns violently. Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or wate courses. Vapours may form explosive mixtures with air. The product will float on water and can be reignited on sur water. Cool closed containers exposed to fire with water spray.	
5.3 Adv	ice for firefighters			
	ecial protective equipment firefighters	:		ed breathing apparatus for firefighting if nec- onal protective equipment.
Spo	ecific extinguishing meth-	:	fire. Remove undamaç so.	d water stream as it may scatter and spread ged containers from fire area if it is safe to do to cool unopened containers.
Further information		:	cumstances and t Use a water spray Collect contamina must not be disch Fire residues and	measures that are appropriate to local cir- the surrounding environment. y to cool fully closed containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Follow safe handling advice and personal protective equip- ment recommendations.
		Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas. Use personal protective equipment.

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		Never return s	urces of ignition. pills in original containers for re-use. d material as described in the section "Disposal ".
6.2 Enviror	mental precautions		
Enviror	nmental precautions	Prevent furthe	ct from entering drains. r leakage or spillage if safe to do so. contaminates rivers and lakes or drains inform horities.
6.3 Method	ls and material for co	ntainment and cle	aning up
Metho	ds for cleaning up	tion at or below Clear spills im Suppress (kno spray jet. To clean the fl al, use plenty Soak up with i Isolate waste Non-sparking Local or natior posal of this m employed in th	mediately. ock down) gases/vapours/mists with a water oor and all objects contaminated by this materi-

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.

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			other ignition sour Smoking, eating a plication area. Wash thoroughly	and drinking should be prohibited in the ap-
	e on protection against nd explosion	:	(which might caus from heat and sou equipment. Keep sources of ignition	action to avoid static electricity discharge se ignition of organic vapours). Keep away urces of ignition. Use only explosion-proof away from open flames, hot surfaces and h. Keep away from combustible material. Do ked flame or any incandescent material.
Hygie	ne measures	:	food and drink. W	n skin, eyes and clothing. Keep away from hen using do not eat or drink. When using ash hands before breaks and immediately product.
Requi	tions for safe storage, rements for storage and containers	incl :	Store in original c cool, well-ventilated ventilated place. (sure increases - c precautions. Store regulations. Avoid composition. Elec comply with the te	ontainer. Keep containers tightly closed in a ed place. Store in cool place. Keep in a well- Contamination may result in dangerous pres- closed containers may rupture. Observe label e in accordance with the particular national l impurities (e.g. rust, dust, ash), risk of de- ctrical installations / working materials must echnological safety standards. Containers must be carefully resealed and kept upright
Advic	e on common storage	:		combustible materials. strong acids, bases, heavy metal salts and bstances.
Recor peratu	mmended storage tem- ure	:	< 30 °C	
	er information on stor- tability	:	Stable under reco	mmended storage conditions.
-	f ic end use(s) fic use(s)	:	For further information sheet.	ation, refer to the product technical data

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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

Derived No Effect Level (DNEL):

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

Predicted No Effect Concentration (PNEC):

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

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8.2 Exposure controls

Engineering measures Minimize workplace exposure	e cor	centrations.
Personal protective equipm		
Eye/face protection	:	Ensure that eyewash stations and safety showers are close to the workstation location. Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Tightly fitting safety goggles Please wear suitable protective goggles. Also wear face pro- tection if there is a splash hazard.
Hand protection Material Break through time Glove thickness	:	Nitrile rubber 30 min 0.40 mm
Material Break through time Glove thickness	:	butyl-rubber 480 min 0.47 mm
Remarks	:	The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protec- tive glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazard- ous substance and specific to place of work. For special ap- plications, we recommend clarifying the resistance to chemi- cals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Skin and body protection	:	Select appropriate protective clothing based on chemical re- sistance data and an assessment of the local exposure poten- tial. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Wear as appropriate: Flame retardant antistatic protective clothing.
Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.
Filter type	:	ABEK-filter

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Prote	ctive measures	••••••	ptective 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

Appearance	:	liquid
Colour	:	red
Odour	:	characteristic
Odour Threshold	:	not determined
pH	:	substance/mixture is non-soluble (in water)
Melting point/range	:	< -25 °C
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	84 °C Method: ISO 3679, closed cup
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Upper explosion limit not determined
Lower explosion limit / Lower flammability limit	:	Lower explosion limit not determined
Vapour pressure	:	No data available
Relative vapour density	:	not determined
Relative density	:	not determined
Density	:	1.01 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	Solvent: Phthalates Description: completely miscible

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				Solvent: Esters Description: com	pletely miscible
	Partitio octano	n coefficient: n- l/water	:	Not applicable	
	Viscos Viso	ity cosity, dynamic	:	13 mPa.s (20 °C)
	Vise	cosity, kinematic	:	not determined	
	Explos	ive properties	:	Not explosive In use, may form	flammable/explosive vapour-air mixture.
	Oxidizi	ng properties	:	The substance o Organic peroxide	r mixture is not classified as oxidizing.
9.2 (Other i	nformation			
		celerating decomposi- nperature (SADT)	:	temperature at w	H.4 lerating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	Flamm	ability (liquids)	:	Flammable liquid	l, Organic peroxide
	Self-he	ating substances	:	The substance o	r mixture is not classified as self heating.
	Refract	ive index	:	1.438 at 20 °C	
	Self-igr	nition	:	The substance o	r mixture is not classified as pyrophoric.

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

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	Conditions to avoid		Protect from cont Contact with inco tion at or below S Heat, flames and Avoid confinemer	mpatible substances can cause decomposi- SADT. sparks.
10.5	Incompatible materials			
	Materials to avoid	:		ong acids and bases, heavy metals and s, reducing agents
10.6	Hazardous decomposition	prod	ucts	
		-		vapours can develop in the case of fire and
SEC	CTION 11: Toxicological ir	nfori	nation	
	Information on toxical acies			
11.1	Information on toxicologica	arem	ects	
	Acute toxicity Harmful if swallowed or if inha	aled.		
	Product:			
	Acute oral toxicity	:	Acute toxicity estin Method: Calculation	mate: 1,450 mg/kg on method
	Acute inhalation toxicity		Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	h dust/mist
	Components:			
	Trimethylpentanediol isobu	tyrat	e:	
	Acute oral toxicity	:	LD50 (Rat): > 2,00 Method: Expert ju Assessment: The icity	
	Acute inhalation toxicity	:	tion toxicity	h vapour
	Acute dermal toxicity		LD50 (Guinea pig Method: Expert ju	
			10 / 04	

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			Assessment: Tr toxicity	e substance or mixture has no acute dermal
2-But	anone, peroxide:			
	oral toxicity	:	Acute toxicity es Method: Expert	stimate: 500 mg/kg judgement
Acute	inhalation toxicity	:	short term inhal	4 h e: dust/mist judgement ie component/mixture is moderately toxic aft
Acute	e dermal toxicity	:	Acute toxicity es Method: Expert	stimate: 2,500 mg/kg judgement
Skin	corrosion/irritation			
Cause	es severe burns.			
Prod	uct:			
Rema	arks	:	Extremely corro	sive and destructive to tissue.
<u>Com</u>	oonents:			
	<u>oonents:</u> ethylpentanediol isol	outyra	te :	
Trime Speci	ethylpentanediol isok ies	outyra :	te : Guinea pig	
Trime Speci Expos	ethylpentanediol isot ies sure time	outyra :	Guinea pig 24 h	
Trime Speci	ethylpentanediol isot les sure time t	outyra : : :	Guinea pig 24 h No skin irritation	
Trime Speci Expos Resul Resul	ethylpentanediol isot ies sure time It arks	outyra : : :	Guinea pig 24 h No skin irritation	
Trime Speci Expose Resul Rema	ethylpentanediol isot ies sure time It arks anone, peroxide:	outyra : : :	Guinea pig 24 h No skin irritation Based on availa	
Trime Speci Expos Resul Resul	ethylpentanediol isot ies sure time It arks anone, peroxide:	outyra : : : :	Guinea pig 24 h No skin irritation	
Trime Speci Expos Resul Rema 2-But Speci Resul	ethylpentanediol isot ies sure time It arks anone, peroxide:	:	Guinea pig 24 h No skin irritation Based on availa Rabbit Causes burns.	
Trime Speci Expos Resul Rema 2-But Speci Resul	ethylpentanediol isot ies sure time It arks anone, peroxide: ies It	irritat	Guinea pig 24 h No skin irritation Based on availa Rabbit Causes burns.	
Trime Speci Expos Resul Rema 2-But Speci Resul	ethylpentanediol isot ies sure time It arks anone, peroxide: ies It ous eye damage/eye es serious eye damag	irritat	Guinea pig 24 h No skin irritation Based on availa Rabbit Causes burns.	
Trime Speci Expos Resul Rema 2-But Speci Resul Seric Cause	ethylpentanediol isot ies sure time it arks anone, peroxide: ies it bus eye damage/eye es serious eye damag <u>uct:</u>	irritat	Guinea pig 24 h No skin irritation Based on availa Rabbit Causes burns.	
Trime Speci Expos Resul Rema 2-But Speci Resul Seric Cause Prod Rema	ethylpentanediol isot ies sure time it arks anone, peroxide: ies it bus eye damage/eye es serious eye damag <u>uct:</u>	irritat	Guinea pig 24 h No skin irritation Based on availa Rabbit Causes burns.	ble data, the classification criteria are not m
Trime Speci Expos Resul Rema 2-But Speci Resul Seric Cause Produ Rema	ethylpentanediol isot ies sure time It arks anone, peroxide: ies it ous eye damage/eye es serious eye damag uct: arks	irritat e.	Guinea pig 24 h No skin irritation Based on availa Rabbit Causes burns. ion May cause irrev	ble data, the classification criteria are not me
Trime Speci Expos Resul Rema 2-But Speci Resul Speci Resul Rema Com Trime	ethylpentanediol isol ies sure time it arks anone, peroxide: ies it ous eye damage/eye es serious eye damag uct: arks ponents: ethylpentanediol isol	irritat e.	Guinea pig 24 h No skin irritation Based on availa Rabbit Causes burns. ion May cause irrev	ble data, the classification criteria are not me

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Resul	t	:	No eye irritation	
2-But Resul	anone, peroxide: t	:	Irreversible effec	ts on the eye
Respi	ratory or skin sensi	tisatio	n	
	sensitisation assified due to lack o	f data.		
-	ratory sensitisation assified due to lack o	f data.		
<u>Comp</u>	oonents:			
	ethylpentanediol iso	butyra	te :	
Speci Resul		:	Guinea pig Does not cause	skin sensitisation.
2-But	anone, peroxide:			
Speci Metho Resul	od	:	Guinea pig OECD Test Guid Does not cause	deline 406 skin sensitisation.
Asses	ssment	:	Harmful if swalld	wed., Harmful if inhaled.
	cell mutagenicity assified due to lack o	f data.		
<u>Comp</u>	oonents:			
	ethylpentanediol iso	butyra		
Genot	oxicity in vitro	:		ro mammalian cell gene mutation test Test Guideline 476
			Test Type: Ame Method: Regulat (Ames test) Result: negative	s test ion (EC) No. 440/2008, Annex, B.13/14
				mosome aberration test in vitro Test Guideline 473
2-But	anone, peroxide:			
	oxicity in vitro	:	Method: OECD Result: negative	Test Guideline 473

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		Method: OECD Result: negative	9 Test Guideline 471 e
		Method: OECD Result: negative	9 Test Guideline 476 e
Not cl	nogenicity assified due to lack of c	data.	
-	<u>oonents:</u> anone, peroxide:		
Rema	•	: This information	n is not available.
•	oductive toxicity ected of damaging fertili	ty or the unborn child	d.
Comp	oonents:		
Trime	ethylpentanediol isobu	ityrate:	
Effects ment	s on foetal develop-	Species: Rat Application Rol	Test Guideline 414
Repro sessn	ductive toxicity - As- nent	evidence of ad	amaging fertility or the unborn child., Some verse effects on sexual function and fertility, opment, based on animal experiments.
2-Buta	anone, peroxide:		
Effects	s on fertility	General Toxicit	ute: oral (gavage) y - Parent: NOAEL: 50 mg/kg body weight rest Guideline 421
	- single exposure assified due to lack of c	data.	
стот	- repeated exposure		
Not cl	assified due to lack of c	lata.	
Repe	ated dose toxicity		
Comp	onents:		

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	EL cation Route sure time	: Rat : 200 mg/kg : oral (gavage) : 28 d : OECD Test G	uideline 407	
•	ration toxicity	data.		
<u>Com</u>	ponents:			
	ethylpentanediol isobu	-	Ithough insufficient for classification.	
Furt	ner information			
Prod	luct:			
Rem	arks	: No data availa	ble	
<u>Com</u>	ponents:			
Trim	ethylpentanediol isob	utyrate:		
Rem	arks	: No data availa	ble	
SECTIO	N 12: Ecological info	ormation		
12.1 Toxi	city			
	ponents:			
	ethylpentanediol isobu	utvrate:		
	sity to fish	: NOEC (Fish): Exposure time		
	tity to daphnia and other tic invertebrates	EC50 (Daphni Exposure time	a (water flea)): >= 1.46 mg/l e: 48 h	
		NOEC (Daphr Exposure time	ia (water flea)): 0.7 mg/l e: 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)

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	oxicology Assessmen		This product b	as no known costovicelegical offecto
Acute	aquatic toxicity	:	This product n	as no known ecotoxicological effects.

Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
2-Butanone, peroxide:		
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 isob	outyrate:
Biodegradability	: Result: rapidly biodegradable Exposure time: 28 d Method: OECD Test Guideline 301B
2-Butanone, peroxide:	
Biodegradability	: Result: Readily biodegradable. Method: OECD Test Guideline 301D

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12.3 Bioaccumulative potential

	Components:					
	Trimethylpentanediol isobutyrate:					
	Bioaccumulation	:	Species: Fish Bioconcentration factor (BCF): 1.95			
	Partition coefficient: n- octanol/water	:	log Pow: 4.91 (25 °C)			
	2-Butanone, peroxide:					
	Partition coefficient: n- octanol/water	:	log Pow: < 0.3 (25 °C)			
12.4	4 Mobility in soil					
	No data available					
12.	5 Results of PBT and vPvB as	sses	ssment			
	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.			
12.0	6 Other adverse effects					
	Product:					
	Endocrine disrupting poten- tial	:	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.			
	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

:

Product

Dispose of wastes in an approved waste disposal facility. The product should not be allowed to enter drains, water

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Conta	aminated packaging	cal or used con : Dispose of in a Clean containe Dispose of con plant. Empty remainin Dispose of as u Do not re-use e	nate ponds, waterways or ditches with chemi- tainer. ccordance with local regulations. r with water. tents/ container to an approved waste disposal g contents.

SECTION 14: Transport information

14.1 UN number

	ADR	:	UN 3105	
	RID	:	UN 3105	
	IMDG	:	UN 3105	
	ΙΑΤΑ	:	UN 3105	
14.2	2 UN proper shipping name			
	ADR	:	ORGANIC PEROXIDE (METHYL ETHYL KE	E TYPE D, LIQUID TONE PEROXIDE(S))
	RID	:	ORGANIC PEROXIDE (METHYL ETHYL KE	E TYPE D, LIQUID TONE PEROXIDE(S))
	IMDG	:	ORGANIC PEROXIDE (METHYL ETHYL KE	E TYPE D, LIQUID TONE PEROXIDE(S))
	ΙΑΤΑ	:	Organic peroxide type (Methyl ethyl ketone p	
14.3	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	:	Not assigned by regul P1	ation

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	Labels Tunnel	restriction code	:	5.2 (D)	
		g group cation Code Identification Number	:	Not assigned by r P1 539 5.2	egulation
	IMDG Packing Labels EmS C		::	Not assigned by r 5.2 F-J, S-R	egulation
	IATA (Packing aircraft) Packing Labels	g instruction (cargo	:	570 Not assigned by r Organic Peroxides	egulation s, Keep Away From Heat
			:	570 Not assigned by r Organic Peroxides	egulation s, Keep Away From Heat
14.	14.5 Environmental hazards				
	ADR Environ	mentally hazardous	:	no	
	RID Environ	mentally hazardous	:	no	
	IMDG Marine	pollutant	:	no	
14.	14.6 Special precautions for use				

ecial precautions for user 14.6 SD

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	: Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	: Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	: Not applicable
Control of Major Accident Hazards Regulations P6b 2015 (COMAH)	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

Other regulations:

Gefahrgruppe nach TRGS 741: II (German regulatory requirements)

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

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

TCSI (TW)	:	On the inventory, or in compliance with the inventory
TSCA (US)	:	All substances listed as active on the TSCA inventory
AIIC (AU)	:	All components are listed on the inventory, regulatory obliga- tions/restrictions apply

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DSL (CA)		: All components	of this product are on the Canadian DSL
KECI (KR)		: On the inventory	, or in compliance with the inventory
IECSC (CN)		: On the inventory	, or in compliance with the inventory

15.2 Chemical safety assessment

SECTION 16: Other information

This information is not available.

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	H33	32 Calculation method
Skin Corr. 1B	H3′	14 Calculation method
Eye Dam. 1	H3′	18 Calculation method
Repr. 2	H36	61 Calculation method
	H4′	12 Calculation method

H242	:	Heating may cause a fire.
H302	:	Harmful if swallowed.

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H314 H318 H332 H361 H412		: Causes se : Harmful if : Suspected	vere skin burns and eye damage. rious eye damage. nhaled. of damaging fertility or the unborn child. aquatic life with long lasting effects.
Full te	ext of other abbrevia	itions	
Acute Tox. Aquatic Chronic Eye Dam. Org. Perox. Repr. Skin Corr. GB EH40 GB EH40 / STEL		: Serious ey : Organic pe : Reproducti : Skin corros : UK. EH40	(chronic) aquatic hazard e damage roxides ve toxicity

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: TSCA - Toxic Substances Control Act (United States): UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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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