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Vers 2.1		Revision Date: 25.07.2024		S Number: 000000100	Date of last issue: 05.07.2022 Date of first issue: 08.11.2018
SEC	SECTION 1: IDENTIFICATION Product name		:	NOROX <sup>®</sup> MEKP-9	
	Manufa	cturer or supplier's d	letai	ls	
	Compar	ıy	:	United Initiators F	Pty Ltd
	Address	3	:	20-22 McPhersor Banksmeadow N	n Street SW 2019 Australia
	Telepho	ne	:	+61 2 9188 3690	(Monday-Friday office hours only)
	Emerge	ncy telephone number	:	+49 89 744220 (2	24 hours specialist advise)
	E-mail a	address	:	cs-initiators.au@u	united-in.com
		mended use of the ch mended use		<b>ical and restrictio</b> Hardener	ns on use

### SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Flammable liquids :		Category 4
Organic peroxides :		Type D
Acute toxicity (Oral) :		Category 4
Acute toxicity (Inhalation) :		Category 4
Skin corrosion/irritation :		Sub-category 1B
Serious eye damage/eye irri- : tation	:	Category 1
Reproductive toxicity :		Category 2
Short-term (acute) aquatic : hazard	:	Category 2

#### **GHS** label elements



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Hazard	l pictograms		
Signal	word	: Danger	· ·
Hazard	l statements	H302 + H332 H314 Causes H361 Suspec	stible liquid. g may cause a fire. Harmful if swallowed or if inhaled. s severe skin burns and eye damage. cted of damaging fertility or the unborn child. o aquatic life.
Precau	itionary statements	P202 Do not and understo P210 Keep a and other ign P234 Keep o P240 Ground P261 Avoid k P264 Wash s P270 Do not P271 Use on P273 Avoid r P280 Wear p	special instructions before use. handle until all safety precautions have been read od. way from heat, hot surfaces, sparks, open flames ition sources. No smoking. nly in original packaging. and bond container and receiving equipment. oreathing mist or vapours. skin thoroughly after handling. eat, drink or smoke when using this product. ly outdoors or in a well-ventilated area. elease to the environment. rotective gloves/ protective clothing/ eye protec- tection/ hearing protection.
		CENTER/ do P301 + P330 induce vomiti P303 + P361 ly all contami P304 + P340 and keep cor POISON CEI P305 + P351 water for sev and easy to c CENTER/ do P308 + P313 attention. P363 Wash o P370 + P378	<ul> <li>+ P353 IF ON SKIN (or hair): Take off immediate nated clothing. Rinse skin with water.</li> <li>+ P310 IF INHALED: Remove person to fresh air nfortable for breathing. Immediately call a NTER/ doctor.</li> <li>+ P338 + P310 IF IN EYES: Rinse cautiously wit eral minutes. Remove contact lenses, if present do. Continue rinsing. Immediately call a POISON</li> </ul>

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- P405 Store locked up.
- P410 Protect from sunlight.
- P411 Store at temperatures not exceeding < 100 °F/ < 38 °C.
- P420 Store separately.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards which do not result in classification

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Organic Peroxide Liquid mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
dimethyl phthalate	131-11-3	>= 40 -< 45
2-Butanone, peroxide	1338-23-4	>= 30 -< 35
Trimethylpentanediol isobutyrate	6846-50-0	>= 20 -< 25
Butanone	78-93-3	>= 1 -< 5
hydrogen peroxide	7722-84-1	>= 1 -< 2.5

### **SECTION 4. FIRST AID MEASURES**

General advice	<ul> <li>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.</li> </ul>
If inhaled	<ul> <li>Administer oxygen if breathing is difficult or cyanosis is observed.</li> <li>Call a physician immediately.</li> <li>If breathed in, move person into fresh air.</li> <li>If not breathing, give artificial respiration.</li> <li>Respiratory tract burning possible if aerosols are inhaled.</li> </ul>

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				r poison control centre immediately. ace in recovery position and seek medical tract clear.
In cas	e of skin contact	:	Immediate medica wounds from correcty. In case of contact for at least 15 min and shoes.	
In cas	e of eye contact	:	sue damage and In the case of con of water and seek Continue rinsing e Remove contact I Protect unharmed Keep eye wide op	tact with eyes, rinse immediately with plenty medical advice. eyes during transport to hospital. enses. eye.
lf swal	lowed	:	Call a physician in Rinse mouth thord Keep respiratory to Do NOT induce vo If symptoms persi	bughly with water. tract clear.
	mportant symptoms fects, both acute and d	:	Harmful if swallow Causes serious e Suspected of dam Causes severe bu	ye damage. haging fertility or the unborn child.
Protec	tion of first-aiders	:		ers should pay attention to self-protection nmended protective clothing
Notes	to physician	:	Treat symptomati	cally and supportively.

### SECTION 5. FIREFIGHTING MEASURES

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

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			Dry chemical	
Unsui media	table extinguishing	:	High volume wate	r jet
Speci fightin	fic hazards during fire-	:	Possible emission lead to a dangerou Avoid confinemen Contact with incor tures exceeding S composition react may auto-ignite. The product burns Flash back possib Do not allow run-o courses. Vapours may form	mpatible materials or exposure to tempera- SADT may result in a self-accelerating de- ion with release of flammable vapors which
Speci ods	fic extinguishing meth-	:	cumstances and t Use a water spray Collect contamina must not be disch Fire residues and be disposed of in	measures that are appropriate to local cir- the surrounding environment. / to cool fully closed containers. ted fire extinguishing water separately. This larged into drains. contaminated fire extinguishing water must accordance with local regulations.
			Remove undamag so.	ged containers from fire area if it is safe to d
	al protective equipment efighters	:	essary.	ed breathing apparatus for firefighting if neo ective equipment.
Hazch	nem Code	:	2WE	

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice and personal protective equip- ment recommendations. Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas. Use personal protective equipment. Remove all sources of ignition. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".
Environmental precautions	:	Prevent product from entering drains.

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Methods and materials for containment and cleaning up		<ul> <li>Prevent further leakage or spillage if safe to do so.</li> <li>If the product contaminates rivers and lakes or drains inforrespective authorities.</li> <li>Contact with incompatible substances can cause decomposition at or below SADT.</li> </ul>			
		Clear spills in Suppress (kn spray jet. To clean the al, use plenty Soak up with Isolate waste Non-sparking Local or natio posal of this employed in	nmediately. lock down) gases/vapours/mists with a water floor and all objects contaminated by this materi-		

### SECTION 7. HANDLING AND STORAGE

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

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	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 product.			
	Conditions for safe storage		:	Store in original container. Keep containers tightly closed in a cool, well-ventilated place Store in cool place. Keep in a well-ventilated place. Contamination may result in dangerous pressure increases - closed containers may rupture. Observe label precautions. Store in accordance with the particular national regulations. Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage.			
	Materia	ls to avoid	:		combustible materials. strong acids, bases, heavy metal salts and ostances.		
	Recomr perature	mended storage tem-	:	< 38 °C			
	Further age sta	information on stor- bility	:	Stable under reco	mmended storage conditions.		

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
dimethyl phthalate	131-11-3	TWA	5 mg/m3	AU OEL
		TWA	5 mg/m3	ACGIH
2-Butanone, peroxide	1338-23-4	Peak limit	0.2 ppm 1.5 mg/m3	AU OEL
		С	0.2 ppm	ACGIH
Butanone	78-93-3	TWA	150 ppm 445 mg/m3	AU OEL
		STEL	300 ppm 890 mg/m3	AU OEL
		TWA	200 ppm	ACGIH

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		STEL	300 ppm	ACGIH
hydrogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m3	AU OEL
		TWA	1 ppm	ACGIH

### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Butanone	78-93-3	methyl ethyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	2 mg/l	ACGIH BEI

Engineering measures : Minimize workplace exposure concentrations.

Personal	protective	equipment
i oroonar	p. 0.000.00	oquipinoni

Respiratory protection	:	In the case of dust or aerosol formation use respirator with a approved filter.		
Filter type	:	ABEK-filter		
Hand protection Material Break through time Glove thickness Material Break through time Glove thickness	:	Nitrile rubber <= 30 min 0.4 mm butyl-rubber <= 480 min 0.5 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.		
Eye 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.		

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		Please w tection if	ting safety goggles ear suitable protective goggles. Also wear face pro- there is a splash hazard.
Skin	Skin and body protection		propriate protective clothing based on chemical e data and an assessment of the local exposure I body garments should be used based upon the g performed (e.g., sleevelets, apron, gauntlets, dis- suits) to avoid exposed skin surfaces. appropriate: ardant antistatic protective clothing.
Prote	ctive measures	to the cor	of protective equipment must be selected according accentration and amount of the dangerous substance ecific workplace.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	colourless
Odour	:	characteristic
рН	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	> 76 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	Not applicable Decomposition
Upper explosion limit / Upper flammability limit	:	No data available

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		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	> 1	
	Density	,	:	1.1 g/cm3	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n- /water	:	No data available	
		celerating decomposi- nperature (SADT)	:	SADT-Self Accel temperature at w	erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	Viscosi Visc	ty :osity, dynamic	:	No data available	
	Visc	cosity, kinematic	:	not determined	
	Oxidizir	ng properties	:	The substance of Organic peroxide	mixture is not classified as oxidizing.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions. Heating may cause a fire or explosion.
Chemical stability	:	Stable under recommended storage conditions. No decomposition if stored normally.
Possibility of hazardous reac- tions	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Protect from contamination. Contact with incompatible substances can cause decomposi- tion at or below SADT. Heat, flames and sparks. Avoid confinement.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and



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			heavy metal sa	alts, reducing agents
Hazar produ	rdous decomposition cts	:		, flammable, noxious/toxic gases and vapour the case of fire and decomposition
CTION	11. TOXICOLOGICAL	_ INFO	ORMATION	
	e toxicity			
Harm	ful if swallowed or if in	haled.		
Produ				
Acute	oral toxicity	:	Acute toxicity e Method: Calcula	stimate: 1,423 mg/kg ation method
Acute	inhalation toxicity	:		stimate: 4.29 mg/l
			Exposure time:	
			Test atmospher Method: Calcula	
<u>Comp</u>	oonents:			
dime	thyl phthalate:			
Acute	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute	inhalation toxicity	:	(Rat): > 10.4 m Exposure time: Test atmospher Remarks: No m	6 h
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 12,000 mg/kg
2-But	anone, peroxide:			
Acute	oral toxicity	:	Acute toxicity e Method: Expert	stimate: 500 mg/kg judgement
Acute	inhalation toxicity	:	Exposure time: Test atmospher Method: Expert Assessment: The short term inhal	e: dust/mist judgement ne component/mixture is moderately toxic aft
Acute	e dermal toxicity	:	Acute toxicity e Method: Expert	stimate: 2,500 mg/kg judgement
Trime	ethylpentanediol isot	outyra	te:	
	oral toxicity	:	LD50 (Rat): > 2	,000 mg/kg
	-		Method: Expert	



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Acute	inhalation toxicity	icity : LCLo (Ra Exposure Test atm	at): > 0.12 mg/l e time: 6 h osphere: vapour		
		Assessm tion toxic	Expert judgement nent: The substance or mixture has no acute inhala- ity : No mortality observed at this dose.		
Acute	dermal toxicity	Method:	uinea pig): > 2,000 mg/kg Expert judgement ient: The substance or mixture has no acute dermal		
Butan	ione:				
Acute	oral toxicity		at): 2,193 mg/kg OECD Test Guideline 423		
Acute	inhalation toxicity	: Remarks	: Remarks: No data available		
Acute	dermal toxicity	Method:	abbit): > 5,000 mg/kg OECD Test Guideline 402 : Based on available data, the classification criteria net.		
hvdro	gen peroxide:				
-	oral toxicity	Method:	at, male and female): 431 mg/kg Expert judgement lent: The component/mixture is moderately toxic after gestion.		
Acute	inhalation toxicity	Exposure Test atm Assessm short terr Remarks	kicity estimate: 1.5 mg/l e time: 4 h osphere: dust/mist nent: The component/mixture is moderately toxic after n inhalation. : Based on harmonised classification in EU regulation 8, Annex VI		
Acute	dermal toxicity		abbit): 9,200 mg/kg : No adverse effect has been observed in acute tox- s.		
	corrosion/irritation as severe burns.				
<u>Produ</u>	ict:				
Rema	rks	: Extremel	y corrosive and destructive to tissue.		



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<u>Comp</u>	oonents:		
dime	thyl phthalate:		
Speci		: Rabbit	
Metho		: Draize Test	
Resul		: No skin irritation	
2-But	anone, peroxide:		
Speci	es	: Rabbit	
Resul		: Causes burns.	
Trime	ethylpentanediol iso	outyrate:	
Speci	es	: Guinea pig	
	sure time	: 24 h	
Resul		: No skin irritation	
Rema	irks	: Based on available	e data, the classification criteria are not m
Butar	none:		
Speci		: Rabbit	
	ssment		re may cause skin dryness or cracking.
Metho		: OECD Test Guide	line 404
Resul	τ	: No skin irritation	
hydro	ogen peroxide:		
Resul	t	: Corrosive after 3	minutes or less of exposure
Serio	us eye damage/eye	irritation	
Cause	es serious eye damag	e.	
Produ	uct:		
Rema		· May cause irrever	sible eye damage.
Noma	into		siste eye damaye.
<u>Comp</u>	<u>oonents:</u>		
dime	thyl phthalate:		
Speci		: Rabbit	
		: No eye irritation	
Resul			line 405
Resul Metho		: OECD Test Guide	
Metho		: OECD Test Guide	
Metho	anone, peroxide:	: OECD Test Guide	
Metho <b>2-But</b> Resul	anone, peroxide:	: Irreversible effects	
Metho 2-But Resul	od anone, peroxide: t ethylpentanediol iso	: Irreversible effects	
Metho <b>2-But</b> Resul	od anone, peroxide: t ethylpentanediol iso es	: Irreversible effects	



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Butan	one:		
Specie	es	: Rabbit	
Result		: Eye irritation	
Metho	d	: OECD Test Gu	ideline 405
hydro	gen peroxide:		
Result		: Irreversible effe	
Rema	rks	: hydrogen perox	kide, 35%
Respi	ratory or skin sensi	tisation	
_	sensitisation		
Not cl	assified due to lack o	f data.	
-	ratory sensitisation assified due to lack o		
	onents:		
dimet	hyl phthalate:		
Specie		: Mouse	
Metho		: OECD Test Gu	
Result	Ι	: Does not cause	e skin sensitisation.
	anone, peroxide:		
Specie		: Guinea pig	
Metho Result		: OECD Test Gu	iideline 406 e skin sensitisation.
itesui		. Does not cause	
Asses	sment	: Harmful if swal	lowed., Harmful if inhaled.
Trime	thylpentanediol iso	butyrate:	
Specie		: Guinea pig	
Result	t	: Does not cause	e skin sensitisation.
Butan	one:		
•	sure routes	: Skin contact	
Specie		: Guinea pig	idalia de 100
Metho Result		: OECD Test Gu	ideline 406 e skin sensitisation.
Result		. 2003 Not Cause	
Chror	nic toxicity		
	cell mutagenicity	f data	
INOT CI	assified due to lack o	i uata.	
-	onents:		



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Genot	oxicity in vitro	: Method: OECI Result: negativ	D Test Guideline 471 <i>j</i> e
		Method: OECI Result: negativ	D Test Guideline 473 Je
		Method: OECI Result: positive	D Test Guideline 476 e
Genot	oxicity in vivo	Species: Rat	romosomal aberration oute: Intraperitoneal <i>j</i> e
		Species: Mous	oute: Intraperitoneal injection
2-But	anone, peroxide:		
	toxicity in vitro	: Method: OECI Result: negativ	D Test Guideline 473 <i>j</i> e
		Method: OECI Result: negativ	D Test Guideline 471 <i>j</i> e
		Method: OECI Result: negativ	D Test Guideline 476 <i>j</i> e
Trime	ethylpentanediol isol	utvrate ·	
	oxicity in vitro	: Test Type: In	vitro mammalian cell gene mutation test D Test Guideline 476 Je
		Test Type: Am Method: Regul (Ames test) Result: negativ	lation (EC) No. 440/2008, Annex, B.13/14
			romosome aberration test in vitro D Test Guideline 473 <i>r</i> e
Butar	ione:		
	oxicity in vitro	: Method: OECI Result: negativ	D Test Guideline 471 <i>j</i> e
		Method: OECI Result: negativ	D Test Guideline 476 <i>j</i> e
		Method: OECI	D Test Guideline 473



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			Result: negativ	A
			0	
Genot	oxicity in vivo	:		ute: Intraperitoneal ) Test Guideline 474
hydro	gen peroxide:			
Genot	oxicity in vitro	:	Result: negative	
			Remarks: Infor literature.	mation taken from reference works and the
				romosome aberration test in vitro ) Test Guideline 473
				mation taken from reference works and the
Genot	toxicity in vivo	:	cytogenetic as Species: Mous Method: OECE	e (male and female) ) Test Guideline 474
			Result: negativ Remarks: hydr	e ogen peroxide, 35%
	cell mutagenicity -	:	Based on avail	able data, the classification criteria are not me
	nogenicity	data		
	assified due to lack of <b>conents:</b>	uala.		
-	thyl phthalate:			
Speci		:	Rat	
Applic	ation Route	:	Skin contact	
Metho		:	OECD Test Gu	uideline 451
Resul Rema		:	negative Based on data	from similar materials
2-But	anone, peroxide:			
Rema	rks	:	This information	n is not available.
hydro	ogen peroxide:			
	nogenicity - Assess-		Carcinogenicity	classification not possible from current data.



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Suspe	oductive toxicity ected of damaging fertil	ity or	the unborn child.	
<u>Com</u>	<u>oonents:</u>			
	thyl phthalate: s on fertility	:	Species: Rat Application Route Method: OECD T Result: negative	
Effect ment	s on foetal develop-	:	-	Maternal: NOAEL: 840 mg/kg body weight oxicity: NOAEL: 3,570 mg/kg body weight
2-But	anone, peroxide:			
	s on fertility	:	Species: Rat Application Route General Toxicity Method: OECD T Result: negative	Parent: NOAEL: 50 mg/kg body weight
Trime	ethylpentanediol isobu	utyra	te :	
Effect ment	s on foetal develop-	:	Test Type: One-g Species: Rat Application Route Method: OECD T Result: negative	
Repro sessr	oductive toxicity - As- nent	:	evidence of adver	naging fertility or the unborn child., Some se effects on sexual function and fertility, ment, based on animal experiments.
Butar	none:			
	s on fertility	:	General Toxicity General Toxicity Method: OECD T	: 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 T	: oral (drinking water) - Parent: LOAEL: 20,000 mg/l est Guideline 416 on data from similar materials
Effect ment	s on foetal develop-	:	Species: Rat Application Route	: Inhalation



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		v T M	veight Feratogenicity: N	Maternal: NOAEC: ca. 1,002 mg/kg body IOAEC Parent: ca. 1,002 mg/kg body weigh Fest Guideline 414
-	<b>ogen peroxide:</b> ductive toxicity - As- nent	: 1	No data available	
	- single exposure			
Not cl	assified due to lack of	data.		
<u>Comp</u>	oonents:			
Butar	none:			
Asses	ssment	: N	May cause drows	siness or dizziness.
hydro	gen peroxide:			
-	t Organs		Respiratory Trac	
Asses	ssment	: N	May cause respi	atory irritation.
	- repeated exposure	2		
	assified due to lack of			
Not cl				
Not cl <u>Comp</u>	assified due to lack of			
Not cl <u>Comp</u>	assified due to lack of ponents: ogen peroxide:	data.	No data available	
Not cl <u>Comp</u> hydro Rema	assified due to lack of ponents: ogen peroxide:	data.	No data available	
Not cl <u>Comp</u> hydro Rema Repe	assified due to lack of ponents: ogen peroxide: rks	data.	No data available	
Not cl Comp hydro Rema Repe	assified due to lack of ponents: ogen peroxide: rks ated dose toxicity	data.	No data available	
Not cl <u>Comp</u> hydro Rema Repe <u>Comp</u> dimet Specie	assified due to lack of <u>conents:</u> ogen peroxide: rks ated dose toxicity <u>conents:</u> thyl phthalate: es	data. : N : F	Rat	
Not cl <u>Comp</u> hydro Rema Repe <u>Comp</u> dimet Specie NOAE	assified due to lack of <u>conents:</u> ogen peroxide: rks ated dose toxicity <u>conents:</u> thyl phthalate: es EL	data. : M : F : 7		
Not cl Comp hydro Rema Reper Comp dimet Specie NOAE Applic Expos	assified due to lack of <u>conents:</u> ogen peroxide: rks ated dose toxicity <u>conents:</u> thyl phthalate: es EL cation Route sure time	data. : M : F : 7 : C : 1	Rat 770 mg/kg Dral 16 w	
Not cl Comp hydro Rema Reper Comp dimet Specie NOAE Applic	assified due to lack of <u>conents:</u> ogen peroxide: rks ated dose toxicity <u>conents:</u> thyl phthalate: es EL cation Route sure time	data. : M : F : 7 : C : 1	Rat 770 mg/kg Dral	
Not cl <u>Comp</u> hydro Rema Repe <u>Comp</u> dimet Specia NOAE Applic Expos Metho	assified due to lack of <u>conents:</u> ogen peroxide: rks ated dose toxicity <u>conents:</u> thyl phthalate: es EL cation Route sure time	data. : M : F : 7 : C : 1	Rat 770 mg/kg Dral 16 w	
Not cl Comp hydro Rema Repe Comp dimet Specie NOAE Applic Expos Metho 2-But Specie	assified due to lack of <u>ponents:</u> pgen peroxide: rks ated dose toxicity <u>ponents:</u> thyl phthalate: es EL sation Route sure time od anone, peroxide: es	data. : N : F : 7 : 0 : 1 : 0 : F	Rat 70 mg/kg Dral 6 w DECD Test Guid	
Not cl Comp hydro Rema Repe Comp dimed Specie NOAE Applic Expos Metho 2-Buta Specie NOAE	assified due to lack of <u>ponents:</u> pgen peroxide: rks ated dose toxicity <u>ponents:</u> thyl phthalate: es EL sation Route sure time od anone, peroxide: es EL	data. : N : F : 7 : 0 : 1 : 0 : F : 2	Rat 770 mg/kg Dral 6 w DECD Test Guic Rat 200 mg/kg	
Not cl Comp hydro Rema Repe Comp dimed Specia NOAE Applic Expos Metho 2-Buta Specia NOAE Applic	assified due to lack of ponents: pgen peroxide: rks ated dose toxicity ponents: thyl phthalate: es EL cation Route sure time od anone, peroxide: es EL cation Route	data. : N : F : 7 : 0 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	Rat 70 mg/kg Dral 6 w DECD Test Guid	
Not cl Comp hydro Rema Repe Comp dimed Specia NOAE Applic Expos Metho 2-Buta Specia NOAE Applic	assified due to lack of <u>conents:</u> ogen peroxide: rks ated dose toxicity <u>conents:</u> thyl phthalate: es EL cation Route sure time od anone, peroxide: es EL cation Route sure time	data. : N : F : 7 : 0 : 1 : 0 : 1 : 2 : 2 : 2 : 2 : 2 : 2 : 2 : 2	Rat 770 mg/kg Dral 66 w DECD Test Guid Rat 200 mg/kg oral (gavage)	eline 408

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#### Assessment

hydrogen peroxide:		
Species NOAEL Application Route Exposure time Remarks	:	Mouse, female 37 mg/kg oral (drinking water) 90 d hydrogen peroxide, 35%
Species NOAEL Application Route Exposure time Remarks	:	Mouse, males 26 mg/kg oral (drinking water) 90 hydrogen peroxide, 35%

#### Aspiration toxicity

Not classified due to lack of data.

#### **Components:**

#### dimethyl phthalate:

No aspiration toxicity classification

#### 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.

#### Further information

### Product:

Remarks

: No data available

#### Components:

### dimethyl phthalate:

Remarks : No data available

### Trimethylpentanediol isobutyrate:

Remarks : No data available

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### SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

### Components:

dimethyl phthalate:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 39 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): > 52 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 260 mg/l Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 11 mg/l Exposure time: 102 d Method: OECD Test Guideline 210
		LOEC (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 102 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 21 d
		LOEC (Daphnia magna (Water flea)): 23 mg/l Exposure time: 21 d
Toxicity to microorganisms	:	EC50: 4,100 mg/l Exposure time: 0.5 h Method: OECD Test Guideline 209
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



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Toxici plants	ity to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 7 Method: OECD T				
			NOEC (Pseudoki mg/l Exposure time: 7 Method: OECD T				
Toxici	Toxicity to microorganisms		EC50 (Bacteria): 48 mg/l Exposure time: 0.5 h Method: OECD Test Guideline 209				
Trime	ethylpentanediol isobut	tvra	te:				
	ity to fish	:	NOEC (Fish): >= Exposure time: 9				
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia ( Exposure time: 4	vater flea)): >= 1.46 mg/l 3 h			
			NOEC (Daphnia Exposure time: 2	(water flea)): 0.7 mg/l 1 d			
Toxici plants	ity to algae/aquatic	:	EC50 (Chlorella p Exposure time: 7 Method: OECD T				
	ic invertebrates (Chron-	:	LOEC (Daphnia r Exposure time: 2	nagna (Water flea)): 0.7 mg/l 1 d			
Ecoto	oxicology Assessment						
Acute	aquatic toxicity	:	This product has	no known ecotoxicological effects.			
Chron	ic aquatic toxicity	:	Harmful to aquation	c life with long lasting effects.			
Butar	none:						
Toxici	Toxicity to fish : LC50 (Pimephale Exposure time: S		Exposure time: 9	s promelas (fathead minnow)): 2,993 mg/l 5 h est Guideline 203			
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 308 mg/l 3 h est Guideline 202			
Toxici plants	ity to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 9 Method: OECD T				



/ersion 1	Revision Date: 25.07.2024		0S Number: 0000000100	Date of last issue: 05.07.2022 Date of first issue: 08.11.2018
Toxicit	y to microorganisms	:	NOEC (Pseudon Exposure time: 7 Method: DIN 38	
hydro	gen peroxide:			
Toxicit	ty to fish	:	LC50 (Pimephale Exposure time: §	es promelas (fathead minnow)): 16.4 mg/ 96 h
	ty to daphnia and other c invertebrates	:	LC50 (Daphnia p Exposure time: 4	oulex (Water flea)): 2.4 mg/l 48 h
Toxicit plants	ty to algae/aquatic	:	EC50 (Skeletone Exposure time: 7	ema costatum (marine diatom)): 1.38 mg/ 72 h
			NOEC (Skeleton Exposure time: 7	ema costatum (marine diatom)): 0.63 mg 72 h
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.63 mg/l 21 d
Toxicit	ty to microorganisms	:	Exposure time: 3	sludge): > 1,000 mg/l 3 h Test Guideline 209
Persis	tence and degradabil	ity		
<u>Comp</u>	onents:			
dimet	hyl phthalate:			
Biode	gradability	:	Result: Readily I Method: OECD	biodegradable. Test Guideline 301E
2-Buta	anone, peroxide:			
Biode	gradability	:	Result: Readily I Method: OECD	biodegradable. Test Guideline 301D
Trime	thylpentanediol isobut	tyra	te:	
Biode	gradability	:	Result: rapidly b Exposure time: 2 Method: OECD	
Butan	one:			
Biode	gradability	:	Result: Readily B Method: OECD	biodegradable. Test Guideline 301D
hydro	gen peroxide:			
Biode	gradability	:	Result: Readily I	biodegradable.
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ersion Revision Date: 1 25.07.2024			8 Number: 000000100	Date of last issue: 05.07.2022 Date of first issue: 08.11.2018
Bioac	cumulative potentia	I		
<u>Comp</u>	onents:			
dimet	hyl phthalate:			
Bioaco	cumulation			ion factor (BCF): 57 D Test Guideline 305
	on coefficient: n- I/water	: 1	og Pow: 1.54	
2-Buta	none, peroxide:			
	on coefficient: n- I/water	: 1	og Pow: < 0.3	3 (25 °C)
Trime	thylpentanediol isot	outyrate	•:	
Bioaco	cumulation		Species: Fish Bioconcentrat	ion factor (BCF): 1.95
	on coefficient: n- I/water	: 1	og Pow: 4.91	(25 °C)
Butan	one:			
	on coefficient: n- I/water	: 1	og Pow: 0.3	(40 °C)
hydro	gen peroxide:			
	on coefficient: n- I/water	I	og Pow: -1.5 Remarks: Info Calculation	7 (20 °C) rmation refers to the main component.
Mobili	ty in soil			
No dat	a available			
Other	adverse effects			
Produ Additic mation	onal ecological infor-	ı		ntal hazard cannot be excluded in the event of I handling or disposal. tic life.
<u>Comp</u>	onents:			
	hyl phthalate: onal ecological infor-	: 1	No data availa	ble

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### SECTION 13. DISPOSAL CONSIDERATIONS

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

### SECTION 14. TRANSPORT INFORMATION

### International Regulations

UNR	ſDG

UNKIDG		
UN number	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	UN 3105
Proper shipping name	:	Organic peroxide type D, liquid
1 11 0		(Methyl ethyl ketone peroxide(s))
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels		Organic Peroxides, Keep Away From Heat
Packing instruction (cargo	:	570
aircraft)	•	
Packing instruction (passen-	•	570
ger aircraft)	•	010
2 /		
IMDG-Code		
UN number	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID
		(METHYL ETHYL KETONE PEROXIDE(S))
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
EmS Code	:	F-J, S-R
Marine pollutant	:	no
I		

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### ADG

UN number	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID
		(METHYL ETHYL KETONE PEROXIDE(S))
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
Hazchem Code	:	2WE
Environmentally hazardous	:	no

### 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.

### SECTION 15. REGULATORY INFORMATION

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

Gefahrgruppe nach TRGS 741: lt	o (German regulatory requirements)
Standard for the Uniform :	Schedule 5 (Please use the original publication to check for
Scheduling of Medicines and	specific uses, specific conditions or threshold limits that might
Poisons	apply for this chemical)

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

### 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)	:	All components are listed on the inventory, regulatory obliga- tions/restrictions apply
DSL (CA)	:	All components of this product are on the Canadian DSL



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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

### SECTION 16. OTHER INFORMATION

Further information		
Revision Date	:	25.07.2024
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/
Date format	:	dd.mm.yyyy
Full text of other abbreviatio	ns	
ACGIH ACGIH BEI AU OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Australia. Workplace Exposure Standards for Airborne Con- taminants.
ACGIH / TWA ACGIH / STEL ACGIH / C AU OEL / TWA AU OEL / STEL AU OEL / Peak limit		8-hour, time-weighted average Short-term exposure limit Ceiling limit Exposure standard - time weighted average Exposure standard - short term exposure limit Exposure standard - peak





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AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NOM - Official Mexican Norm: NTP - National Toxicology Program: 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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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