# NOROX<sup>®</sup>MEC-EX



Version 4.0	Revision Date: 10/10/2023	-	DS Number: 0000000095	Date of last issue: 0 Date of first issue: 1	
SECTION	1. IDENTIFICATION				
Trade	name	:	NOROX <sup>®</sup> MEC-EX		
Other	means of identification	:	No data available		
Manu	facturer or supplier's o	deta	ails		
Comp	any name of supplier	:	United Initiators, I	nc.	
Addre	SS	:	555 Garden Stree Elyria OH 44035		
			United Initiators C 2147 PG Pulp Mil Prince George, B		
Telepł	hone	:	+1-440-323-3112		
Telefa	x	:	+1-440-323-2659		
Emerç	gency telephone	:	CHEMTREC US CHEMTREC WO CANUTEC (24h):		+1-800-424-9300 +1-703-527-3887 1-613-996-6666
For Tr	ransportation Incidents	:	TERRAPURE EN 1-800-567-7455	IERGENCY RESPON	NSE SERVICES (24h):
	il address of person nsible for the SDS	:	cs-initiators.nafta@	@united-in.com	
Reco	mmended use of the c	hen	nical and restrictio	ons on use	

Recommended use : Hardener

#### SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance	with the Hazardous Product	s Regulations
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Flammable liquids	:	Category 4
Organic peroxides	:	Type D
Acute toxicity (Oral)	:	Category 4
Skin corrosion	:	Category 1B
Serious eye damage	:	Category 1



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Repro	ductive toxicity	: Category 2	
Short- hazar	-term (acute) aquatic d	: Category 3	
	<b>label elements</b> rd pictograms		
Signa	I Word	: Danger	
Hazar	rd Statements	H302 Harmful H314 Causes H361 Suspec	may cause a fire.
Preca	utionary Statements	P202 Do not H and understoo P210 Keep av and other igni P234 Keep or P240 Ground P264 Wash s P270 Do not e P273 Avoid re	vay from heat, hot surfaces, sparks, open flames tion sources. No smoking. aly in original packaging. and bond container and receiving equipment. kin thoroughly after handling. eat, drink or smoke when using this product. elease to the environment. otective gloves/ protective clothing/ eye protection
		CENTER/ doc P301 + P330 induce vomitin P303 + P361 all contaminat P304 + P340 and keep com CENTER/ doc P305 + P351 water for seve and easy to d CENTER/ doc	<ul> <li>+ P353 IF ON SKIN (or hair): Take off immediately ed clothing. Rinse skin with water.</li> <li>+ P310 IF INHALED: Remove person to fresh air ifortable for breathing. Immediately call a POISON ofter.</li> <li>+ P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present o. Continue rinsing. Immediately call a POISON</li> </ul>



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		P370 + P378 li	ontaminated clothing before reuse. n case of fire: Use water spray, alcohol-resistant			
foam, dry chemical or carbon dioxide to extinguish. Storage:						
		P403 Store i P405 Store I P410 Protec P411 Store a				
		Disposal:				
		P501 Dispose posal plant.	of contents/ container to an approved waste dis-			
I Othei	r hazards					
None	known.					

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

Substance / Mixture

: Mixture

Chemical nature

: Organic Peroxide Liquid mixture

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
dimethyl phthalate	dimethyl phtha- late	131-11-3	>= 45 - < 50 *
2-Butanone, peroxide	2-Butanone, peroxide	1338-23-4	>= 20 - < 25 *
Trimethylpentanediol isobutyrate	Trimethylpenta- nediol isobuty- rate	6846-50-0	>= 15 - < 20 *
cyclohexanone, perox- ide	cyclohexanone, peroxide	12262-58-7	>= 7.5 - < 10 *
Hydrogen peroxide	Hydrogen pe- roxide	7722-84-1	>= 1 - < 5 *
2-methylpentane-2,4- diol	2- methylpentane- 2,4-diol	107-41-5	>= 1 - < 5 *
Butanone	Butanone	78-93-3	>= 1 - < 5 *

Actual concentration or concentration range is withheld as a trade secret

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



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Genera	l advice	Call a Never If unco advice. Move o Show attenda Do not	out of dangerous area. this material safety data sheet to the doctor in
lf inhale	ed	observ Call a If breat If not b Respin Call a If unco advice.	physician immediately. hed in, move person into fresh air. reathing, give artificial respiration. atory tract burning possible if aerosols are inhaled. physician or poison control center immediately. nscious, place in recovery position and seek medical
In case	of skin contact	Immed wound difficult In case for at I and sh Wash If on s	e of contact, immediately flush skin with plenty of water east 15 minutes while removing contaminated clothing
In case	e of eye contact	tissue In the of wate Contin Remov Protec Keep e	amounts splashed into eyes can cause irreversible damage and blindness. case of contact with eyes, rinse immediately with plenty er and seek medical advice. ue rinsing eyes during transport to hospital. te contact lenses. t unharmed eye. eye wide open while rinsing. rritation persists, consult a specialist.
lf swall	owed	Rinse Keep r Do NC	physician immediately. mouth thoroughly with water. espiratory tract clear. T induce vomiting. otoms persist, call a physician.
	nportant symptoms ects, both acute and d	Cause	Il if swallowed. s serious eye damage. cted of damaging fertility or the unborn child.



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				Causes severe bu	ırns.
F	Protection of	of first-aiders	:		rs should pay attention to self-protection mended protective clothing
Ν	Notes to phy	ysician	:	Treat symptomation	cally and supportively.
SECT	ION 5. FIR	RE-FIGHTING ME	ASU	RES	
S	Suitable ext	tinguishing media	:	Water spray jet Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Jnsuitable nedia	extinguishing	:	High volume wate	r jet
	Specific haz ighting	zards during fire	:	Possible emission lead to a dangerou Avoid confinement Contact with incor temperatures exce	npatible materials or exposure to eeding SADT may result in a self- mposition reaction with release of flammable
				Do not allow run-c courses. Vapors may form The product will flo water.	s violently. le over considerable distance. ff from fire fighting to enter drains or water explosive mixtures with air. pat on water and can be reignited on surface iners exposed to fire with water spray.
	Specific ext ods	inguishing meth-	:	fire. Remove undamag so.	water stream as it may scatter and spread ed containers from fire area if it is safe to do o cool unopened containers.
F	Further info	rmation	:	circumstances and Use a water spray Collect contamina must not be disch. Fire residues and	measures that are appropriate to local d the surrounding environment. to cool fully closed containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
	Special prot or fire-fighte	ective equipment ers	:	Wear self-containe necessary.	ed breathing apparatus for firefighting if

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			Use personal prot	ective equipment.
SECTION	6. ACCIDENTAL RELEA	ASE	MEASURES	
tive ea	nal precautions, protec- quipment and emer- procedures	:	equipment recomme Beware of vapors concentrations. V Use personal prot Ensure adequate Remove all source Never return spills	accumulating to form explosive apors can accumulate in low areas. ective equipment. ventilation.
Enviro	nmental precautions	:	Prevent further lea	rom entering drains. akage or spillage if safe to do so. taminates rivers and lakes or drains inform ties.
	ods and materials for nment and cleaning up	:	decomposition at Clear spills immed Suppress (knock jet. To clean the floor material, use plen Soak up with inert Isolate waste and Non-sparking tool Local or national disposal of this m employed in the c	diately. down) gases/vapors/mists with a water spra and all objects contaminated by this ty of water. t absorbent material. do not reuse.

### 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 vapors). 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.

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Advic	e on safe handling	:	Protect from conta Do not swallow. Do not breathe va Avoid exposure - Avoid contact with Avoid formation o Take precautionar Never return any originally removed Provide sufficient Avoid confinemen Keep away from H other ignition sour Smoking, eating a application area. Wash thoroughly	pors/dust. obtain special instructions before use. n skin and eyes. f aerosol. y measures against static discharges. product to the container from which it was air exchange and/or exhaust in work rooms t. neat, hot surfaces, sparks, open flames and rces. No smoking. and drinking should be prohibited in the
Condi	itions for safe storage	:	Store in cool plac Keep in a well-ver Contamination ma closed containers Observe label pre Store in accordan Avoid impurities ( Electrical installat the technological	ightly closed in a cool, well-ventilated place e. ntilated place. ay result in dangerous pressure increases - may rupture. cautions. ce with the particular national regulations. e.g. rust, dust, ash), risk of decomposition. ions / working materials must comply with safety standards. are opened must be carefully resealed and
Mater	rials to avoid	:	Keep away from so	strong acids, bases, heavy metal salts and bstances.
Reco peratu		:	< 38 °C	
	er information on stor- tability	:	No decomposition	if stored normally.
			No decomposition	if stored normally.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
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sion	Revision Date: 10/10/2023	SDS Number: 60000000095		t issue: 06/24/2021 t issue: 12/20/2016	
dimet	hyl phthalate	131-11-3	TWA	5 mg/m3	CA AB O
			TWA	5 mg/m3	CA BC O
			TWAEV	5 mg/m3	CA QC O
			TWA	5 mg/m3	ACGIH
2-Buta	anone, peroxide	1338-23-4	(c)	0.2 ppm 1.4 mg/m3	CA AB O
			С	0.2 ppm	CA BC O
			С	0.2 ppm 1.5 mg/m3	CA QC O
			С	0.2 ppm	ACGIH
Hydro	ogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m3	CA AB OI
			TWA	1 ppm	CA BC O
			TWAEV	1 ppm	CA QC O
			TWA	1 ppm	ACGIH
2-met	hylpentane-2,4-diol	107-41-5	(c)	25 ppm 121 mg/m3	CA AB OI
			С	25 ppm	CA BC O
			С	25 ppm 121 mg/m3	CA QC O
			TWA (Vapor)	25 ppm	ACGIH
			STEL (Vapor)	50 ppm	ACGIH
			STEL (Inhalable fraction, Aerosol only)	10 mg/m3	ACGIH
Butan	ione	78-93-3	TWA	200 ppm 590 mg/m3	CA AB OI
			STEL	300 ppm 885 mg/m3	CA AB OI
			TWA	50 ppm	CA BC O
			STEL	100 ppm	CA BC O
			TWAEV	50 ppm 150 mg/m3	CA QC O
			STEV	100 ppm 300 mg/m3	CA QC O
			TWA	200 ppm	ACGIH
			STEL	300 ppm	ACGIH

#### Biological occupational exposure limits

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



ion	Revision Date: 10/10/2023	-	DS Number: 0000000095		of last issue: 06/24/2021 of first issue: 12/20/2016	
					ceases)	
Engin	eering measures	:	Minimize work	place exp	osure concentrations.	
Perso	nal protective equi	oment	:			
Respir	ratory protection	:	In the case of approved filter		rosol formation use respi	rator with an
Filt	ter type	:	ABEK-filter			
			Use NIOSH a	pproved re	espiratory protection.	
Ma Bre Glo Ma Bre	protection aterial eak through time ove thickness aterial eak through time ove thickness	:	butyl-rubber 480 min 0.5 mm Nitrile rubber < 30 min 0.4 mm			
Re	marks	:	standard value material has to protective glov chemicals dep hazardous su For special a resistance to o	es! The ex o be obtain we. Choose bending on bstance ar pplications chemicals we glove ma	arough time/strength of m act break through time/s ned from the producer of e gloves to protect hands in the concentration and q nd specific to place of wo s, we recommend clarifyir of the aforementioned pr anufacturer. Wash hands f workday.	trength of the against uantity of the rk. ng the otective
Eye p	rotection	:	to the worksta Please follow selecting prote Always wear eye contact w Tightly fitting s	tion location all applicat ective meat eye protect with the pro- safety gogg suitable pro-	ble local/national requirer asures for a specific work tion when the potential fo duct cannot be excluded. gles ptective goggles. Also we	ments when place. r inadvertent
Skin a	and body protection	:			ctive clothing based on c assessment of the local e	
			task being per disposable su Wear as appro	rformed (e. its) to avoid opriate:	s should be used based .g., sleevelets, apron, ga d exposed skin surfaces. ic protective clothing.	untlets,

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Prote	ctive measures	••••••	tective equipment must be selected according ation and amount of the dangerous substance vorkplace.
Hygie	ene measures	Keep away fron When using do When using do	vith skin, eyes and clothing. n food and drink. not eat or drink. not smoke. efore breaks and immediately after handling

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	colorless
Odor	:	slight
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	Decomposition: Decomposes below the boiling point.
Flash point	:	76 °C
		Method: Seta closed cup
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	> 1
Density	:	1.1 g/cm3
Solubility(ies) Water solubility	:	slightly soluble

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ersion )	Revision Date: 10/10/2023	-	S Number: 000000095	Date of last issue: 06/24/2021 Date of first issue: 12/20/2016
	ion coefficient: n- ol/water	:	No data available	
	Accelerating decomposi- emperature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowe hich the tested package size will undergo a decomposition reaction.
Visco Vis	sity scosity, dynamic	:	No data available	
Oxidiz	zing properties	:	The substance of Organic peroxide	r mixture is not classified as oxidizing.
CTION	10. STABILITY AND RE	EAC	ΓΙVΙΤΥ	
React	livity	:		ommended storage conditions. se a fire or explosion.
Chem	ical stability	:		ommended storage conditions. n if stored normally.
Possi tions	bility of hazardous reac-	:	Vapors may form	explosive mixture with air.
Condi	itions to avoid	:	Protect from cont Contact with incc decomposition at Heat, flames and Avoid confinement	ompatible substances can cause t or below SADT. I sparks.
Incom	npatible materials	:		ong acids and bases, heavy metals and s, reducing agents

#### SECTION 11. TOXICOLOGICAL INFORMATION

Hazardous decomposition

products

Acute toxicity Harmful if swallowed.	
Product:	
Acute oral toxicity	: Acute toxicity estimate: 1,785 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate: > 5 mg/l Exposure time: 4 h
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: Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition



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			ohere: dust/mist culation method
Acute	e dermal toxicity		ty estimate: > 2,000 mg/kg culation method
<u>Com</u> p	oonents:		
dime	thyl phthalate:		
Acute	oral toxicity	: LD50 (Rat):	> 5,000 mg/kg
Acute	inhalation toxicity	: (Rat): > 10. Exposure tir Test atmosp Remarks: N	me: 6 h
Acute	e dermal toxicity	: LD50 (Rabb	it): > 12,000 mg/kg
2-But	anone, peroxide:		
	oral toxicity		ty estimate: 500 mg/kg pert judgment
Acute	inhalation toxicity	Exposure tir Test atmosp Method: Exp Assessmen short term ir	ohere: dust/mist pert judgment t: The component/mixture is moderately toxic afte
Acute	e dermal toxicity		ty estimate: 2,500 mg/kg pert judgment
Trime	ethylpentanediol isol	outyrate:	
Acute	e oral toxicity	Method: Exp	> 2,000 mg/kg pert judgment t: The substance or mixture has no acute oral tox
Acute	inhalation toxicity	Assessment tion toxicity	me: 6 h
Acute	e dermal toxicity	Method: Exp	ea pig): > 2,000 mg/kg pert judgment t: The substance or mixture has no acute dermal



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			toxicity	
-	hexanone, peroxide: oral toxicity	:	LD50 (Rat): 1, <sup>2</sup>	55 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time: Test atmosphe	4 h
Acute	dermal toxicity	:	LD50: > 2,000 Remarks: Inform similar substan	nation given is based on data obtained from
Hydro	ogen peroxide:			
-	oral toxicity	:	Method: Exper	he component/mixture is moderately toxic after
Acute	inhalation toxicity	:	Exposure time: Test atmosphe Assessment: T short term inha	re: dust/mist he component/mixture is moderately toxic afte lation. ed on harmonised classification in EU regulatio
Acute	dermal toxicity	:	LD50 (Rabbit): Remarks: No a icity tests.	9,200 mg/kg dverse effect has been observed in acute tox
2-met	hylpentane-2,4-diol:			
	oral toxicity	:	Assessment: T icity	2,000 mg/kg Test Guideline 420 he substance or mixture has no acute oral tox nortality observed at this dose.
Acute	inhalation toxicity	:	tion toxicity	8 h
Acute	dermal toxicity	:	Assessment: T toxicity	> 2,000 mg/kg Test Guideline 402 he substance or mixture has no acute dermal nortality observed at this dose.



sion	Revision Date: 10/10/2023	SDS Number: 60000000095	Date of last issue: 06/24/2021 Date of first issue: 12/20/2016
Butar	none:		
Acute	oral toxicity	: LD50 (Rat): 2 Method: OEC	,193 mg/kg D Test Guideline 423
Acute	inhalation toxicity	: Remarks: No	data available
Acute	dermal toxicity		: > 5,000 mg/kg D Test Guideline 402 sed on available data, the classification criteria
-	corrosion/irritation		
Produ Rema		· Extremely co	rosive and destructive to tissue.
Rema		. Extremely con	tosive and desirative to itssue.
<u>Comp</u>	oonents:		
dime	thyl phthalate:		
Speci	es	: Rabbit	
Metho		: Draize Test	
Resul	t	: No skin irritati	on
2-Buta	anone, peroxide:		
Speci	es	: Rabbit	
Resul		: Causes burns	
Trime	ethylpentanediol isok	outyrate:	
Speci		: Guinea pig	
Expos	sure time	: 24 h	
Resul		: No skin irritati	
Rema	rks	: Based on ava	ilable data, the classification criteria are not m
cyclo	hexanone, peroxide	:	
Speci	es	: Rabbit	
Resul		: Severe skin ir	ritation
Hydro	ogen peroxide:		
Resul	t	: Corrosive afte	r 3 minutes or less of exposure
2-met	hylpentane-2,4-diol:		
Speci		: Rabbit	
Metho		: OECD Test G	uideline 404
Resul	t	: Skin irritation	



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Rema	rks	: Based on harm 1272/2008, An	nonised classification in EU regulation nex VI
Butan	ione:		
Specie Asses Metho Result	ssment od	: Rabbit : Repeated expo : OECD Test Gu : No skin irritatio	
	<b>us eye damage/eye</b> es serious eye dama <u>c</u>		
Produ		J <del>C</del> .	
Rema		: May cause irre	versible eye damage.
<u>Comp</u>	oonents:		
dimet	thyl phthalate:		
Specie	es	: Rabbit	
Result		: No eye irritation	
Metho	od	: OECD Test Gu	ideline 405
2-Buta	anone, peroxide:		
Result	t	: Irreversible effe	ects on the eye
Trime	thylpentanediol iso	butyrate:	
Speci		: Rabbit	
Result	-	: No eye irritation	1
Expos	sure time	: 24 h	
cyclo	hexanone, peroxide	):	
Specie Result		: Rabbit : Severe irritation	n
Hydro	ogen peroxide:		
Result		: Irreversible effe	ects on the eye
Rema	rks	: Hydrogen pero	xide (H2O2), 35%
Rema	rks	: May cause irre	versible eye damage.
2-met	hylpentane-2,4-diol	:	
Speci		: Rabbit	
Result		: irritating	
Metho Rema		: OECD Test Gu	
кета	IKS	: Based on narm	onised classification in EU regulation



Butanone: Species Result Method Respiratory or skin set Skin sensitization Not classified based on Respiratory sensitizati Not classified based on Components: dimethyl phthalate: Species Method Result 2-Butanone, peroxide: Species Method Result Assessment Trimethylpentanediol i Species Result 2-methylpentane-2,4-di Test Type Routes of exposure Species Method Result	available information. on available information. : Mouse : OECD Test Gu : Does not caus : Guinea pig : OECD Test Gu	uideline 429 e skin sensitization.
Species Result Method Respiratory or skin set Skin sensitization Not classified based on Respiratory sensitizati Not classified based on <u>Components:</u> dimethyl phthalate: Species Method Result <b>2-Butanone, peroxide:</b> Species Method Result Assessment Trimethylpentanediol i Species Result <b>2-methylpentane-2,4-di</b> Test Type Routes of exposure Species Method	: Eye irritation : OECD Test Gu available information. on available information. : Mouse : OECD Test Gu : Does not caus : Guinea pig : OECD Test Gu	uideline 429 e skin sensitization. uideline 406
Result Method Respiratory or skin set Skin sensitization Not classified based on Respiratory sensitizati Not classified based on Components: dimethyl phthalate: Species Method Result Assessment Trimethylpentanediol i Species Result 2-methylpentane-2,4-di Test Type Routes of exposure Species Method	: Eye irritation : OECD Test Gu available information. on available information. : Mouse : OECD Test Gu : Does not caus : Guinea pig : OECD Test Gu	uideline 429 e skin sensitization. uideline 406
Skin sensitization         Not classified based on         Respiratory sensitizati         Not classified based on         Components:         dimethyl phthalate:         Species         Method         Result         2-Butanone, peroxide:         Species         Method         Result         Assessment         Trimethylpentanediol i         Species         Result         2-methylpentane-2,4-di         Test Type         Routes of exposure         Species         Method	available information. on available information. : Mouse : OECD Test Gu : Does not caus : Guinea pig : OECD Test Gu	e skin sensitization. uideline 406
Not classified based on <b>Respiratory sensitizati</b> Not classified based on <b>Components:</b> <b>dimethyl phthalate:</b> Species Method Result <b>2-Butanone, peroxide:</b> Species Method Result <b>Assessment</b> <b>Trimethylpentanediol i</b> Species Result <b>2-methylpentane-2,4-di</b> Test Type Routes of exposure Species Method	on available information. : Mouse : OECD Test Gu : Does not caus : Guinea pig : OECD Test Gu	e skin sensitization. uideline 406
Respiratory sensitizati Not classified based on <u>Components:</u> dimethyl phthalate: Species Method Result <b>2-Butanone, peroxide:</b> Species Method Result Assessment Trimethylpentanediol i Species Result <b>2-methylpentane-2,4-di</b> Test Type Routes of exposure Species Method	on available information. : Mouse : OECD Test Gu : Does not caus : Guinea pig : OECD Test Gu	e skin sensitization. uideline 406
Not classified based on Components: dimethyl phthalate: Species Method Result 2-Butanone, peroxide: Species Method Result Assessment Trimethylpentanediol i Species Result 2-methylpentane-2,4-di Test Type Routes of exposure Species Method	available information. : Mouse : OECD Test Gu : Does not caus : Guinea pig : OECD Test Gu	e skin sensitization. uideline 406
Components: dimethyl phthalate: Species Method Result 2-Butanone, peroxide: Species Method Result Assessment Trimethylpentanediol i Species Result 2-methylpentane-2,4-di Test Type Routes of exposure Species Method	: Mouse : OECD Test Gu : Does not caus : Guinea pig : OECD Test Gu	e skin sensitization. uideline 406
dimethyl phthalate: Species Method Result 2-Butanone, peroxide: Species Method Result Assessment Trimethylpentanediol i Species Result 2-methylpentane-2,4-di Test Type Routes of exposure Species Method	<ul> <li>OECD Test Gu</li> <li>Does not caus</li> <li>Guinea pig</li> <li>OECD Test Gu</li> </ul>	e skin sensitization. uideline 406
Species Method Result 2-Butanone, peroxide: Species Method Result Assessment Trimethylpentanediol i Species Result 2-methylpentane-2,4-di Test Type Routes of exposure Species Method	<ul> <li>OECD Test Gu</li> <li>Does not caus</li> <li>Guinea pig</li> <li>OECD Test Gu</li> </ul>	e skin sensitization. uideline 406
Species Method Result Assessment <b>Trimethylpentanediol i</b> Species Result <b>2-methylpentane-2,4-di</b> Test Type Routes of exposure Species Method	: OECD Test Gu	
Method Result Assessment Trimethylpentanediol i Species Result 2-methylpentane-2,4-di Test Type Routes of exposure Species Method	: OECD Test Gu	
Result Assessment Trimethylpentanediol i Species Result 2-methylpentane-2,4-di Test Type Routes of exposure Species Method		
Trimethylpentanediol i Species Result 2-methylpentane-2,4-di Test Type Routes of exposure Species Method		
Species Result 2-methylpentane-2,4-di Test Type Routes of exposure Species Method	: Harmful if swa	llowed., Harmful if inhaled.
Result <b>2-methylpentane-2,4-d</b> Test Type Routes of exposure Species Method	sobutyrate:	
<b>2-methylpentane-2,4-d</b> Test Type Routes of exposure Species Method	: Guinea pig	e elvis e encitization
Test Type Routes of exposure Species Method	: Does not caus	e skin sensitization.
Routes of exposure Species Method	ol:	
Species Method	: Maximization	Test
Method	: Skin contact : Guinea pig	
	: OECD Test Gu	uideline 406
		e skin sensitization.
Butanone:		
Routes of exposure	: Skin contact	
Species		
Method Result	: Guinea pig	uideline 406
NGOUIL	: Guinea pig : OECD Test Gu	
Germ cell mutagenicity Not classified based on	: Guinea pig : OECD Test Gu	e skin sensitization.



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<u>Co</u>	mponents:			
dir	nethyl phthalate:			
Ge	notoxicity in vitro	:	Method: OECD 1 Result: negative	Fest Guideline 471
			Method: OECD T Result: negative	Fest Guideline 473
			Method: OECD T Result: positive	Fest Guideline 476
Ge	notoxicity in vivo	:		nosomal aberration
			Species: Rat Application Route	e: Intraperitoneal
			Result: negative	
			Test Type: Micro	nucleus test
			Species: Mouse	e: Intraperitoneal injection
			Result: negative	e. Intrapentoneal injection
	Butanone, peroxide: notoxicity in vitro		Method: OECD 1	Fest Guideline 473
00		•	Result: negative	
			Method: OECD T Result: negative	Fest Guideline 471
			Method: OECD T Result: negative	Fest Guideline 476
Tri	methylpentanediol isobu	ıtvra	te:	
	notoxicity in vitro	:		o mammalian cell gene mutation test
			Method: OECD 7 Result: negative	Fest Guideline 476
			Test Type: Ames	
			Method: Regulati (Ames test)	on (EC) No. 440/2008, Annex, B.13/14
			Result: negative	
				nosome aberration test in vitro Fest Guideline 473
			-	
-	clohexanone, peroxide:		Mathadu OFOD T	Fact Quideline 474
Ge	notoxicity in vitro	:	Result: positive	Fest Guideline 471
			•	

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ersion .0	Revision Date: 10/10/2023	-	DS Number: 0000000095	Date of last issue: 06/24/2021 Date of first issue: 12/20/2016
Genot	oxicity in vivo	:		ute: Intraperitoneal ) Test Guideline 474
Hydro	gen peroxide:			
Genot	oxicity in vitro	:	Result: negative	cterial reverse mutation assay (AMES) e mation taken from reference works and the
			Method: OECD Result: positive	omosome aberration test in vitro 7 Test Guideline 473 9 mation taken from reference works and the
Genot	oxicity in vivo	:	cytogenetic as: Species: Mous Method: OECD Result: negative	e (male and female) ) Test Guideline 474
	cell mutagenicity - sment	:	Based on avail	able data, the classification criteria are not me
2-met	hylpentane-2,4-diol:			
Genot	oxicity in vitro	:		ation: with and without metabolic activation Test Guideline 471
			Test system: n Metabolic activ	itro mammalian cell gene mutation test nouse lymphoma cells ation: with and without metabolic activation ) Test Guideline 476 e
			Test system: C Metabolic activ	omosome aberration test in vitro Chinese hamster ovary cells ation: with and without metabolic activation Test Guideline 473 e
	cell mutagenicity -	:	In vitro tests di	d not show mutagenic effects

#### Butanone:

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Genot	oxicity in vitro	: Method: OE Result: nega	CD Test Guideline 471 ative
		Method: OE Result: nega	CD Test Guideline 476 ative
		Method: OE Result: nega	CD Test Guideline 473 ative
Genot	oxicity in vivo		Route: Intraperitoneal CD Test Guideline 474
	<b>nogenicity</b> assified based on avai	able information.	
<u>Comp</u>	oonents:		
dime	thyl phthalate:		
Speci		: Rat	
Applic	ation Route	: Skin contac	t Guideline 451
Resul		: negative	Guidenne 451
Rema	rks		ata from similar materials
2-Buta	anone, peroxide:		
Rema	· · ·	: This informa	tion is not available.
Hydro	ogen peroxide:		
•	nogenicity - Assess-	: Carcinogeni	city classification not possible from current data.
2-met	hylpentane-2,4-diol:		
Rema	rks	: This informa	tion is not available.
Carcir ment	nogenicity - Assess-	: Based on a	ailable data, the classification criteria are not met.
-	oductive toxicity		
-	ected of damaging ferti	lity or the unborn o	child.
<u>Comp</u>	oonents:		
dime	thyl phthalate:		
Effect	s on fertility	: Species: Ra Application Method: OE Result: nega	Route: oral (gavage) CD Test Guideline 440



ersion .0	Revision Date: 10/10/2023	-	DS Number: 0000000095	Date of last issue: 06/24/2021 Date of first issue: 12/20/2016
Effect	s on fetal development	:	Developmental	ute: Ingestion ty Maternal: NOAEL: 840 mg/kg body weight Toxicity: NOAEL: 3,570 mg/kg body weight 0 Test Guideline 414
2-But	anone, peroxide:			
Effect	s on fertility	:	General Toxicit	ute: oral (gavage) ty Parent: NOAEL: 50 mg/kg body weight ) Test Guideline 421 e
Trime	ethylpentanediol isobu	ıtyra	te:	
	s on fetal development	:	Test Type: One Species: Rat Application Rol	Test Guideline 414
Repro sessn	ductive toxicity - As- nent	:	evidence of ad	lamaging fertility or the unborn child., Some verse effects on sexual function and fertility, lopment, based on animal experiments.
Hydro	ogen peroxide:			
Repro sessn	ductive toxicity - As- nent	:	No data availab	le
2-met	thylpentane-2,4-diol:			
	s on fertility	:		ute: oral (gavage) ) Test Guideline 443 e
Repro sessn	ductive toxicity - As- nent	:		e of adverse effects on development, based on ents., Suspected of damaging the unborn
Butar	ione:			
Effect	s on fertility	:	General Toxicit General Toxicit Method: OECD	ute: oral (drinking water) ty Parent: NOAEL: 10,000 mg/l ty F1: NOAEL: 10,000 mg/l ) Test Guideline 416 ed on data from similar materials



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Ef	ffects	on fetal development	:	General Toxicity F Method: OECD Te Remarks: Based of Species: Rat Application Route: General Toxicity M weight	on data from similar materials Inhalation Naternal: NOAEC: ca. 1,002 mg/kg body DAEC Parent: ca. 1,002 mg/kg body weight
No	ot clas	ingle exposure ssified based on availa	ble	information.	
<u>Co</u>	ompo	<u>nents:</u>			
Ну	ydrog	en peroxide:			
	arget ( ssess	Organs ment	:	Respiratory Tract May cause respira	tory irritation.
2-1	methy	ylpentane-2,4-diol:			
As	ssess	ment	:	The substance or organ toxicant, sir	mixture is not classified as specific target agle exposure.
Βι	utano	ne:			
As	ssess	ment	:	May cause drowsi	ness or dizziness.
S	TOT-r	epeated exposure			
No	ot clas	sified based on availa	ble	information.	
<u>Cc</u>	ompo	<u>nents:</u>			
H	ydroa	en peroxide:			
-	emark	-	:	No data available	
2-1	meth	ylpentane-2,4-diol:			
As	ssess	ment	:	The substance or organ toxicant, rep	mixture is not classified as specific target beated exposure.
Re	epeat	ed dose toxicity			
<u>Cc</u>	ompo	<u>nents:</u>			
di	imeth	yl phthalate:			
	pecies		:	Rat	
	OAEL		:	770 mg/kg	

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ersion .0	Revision Date: 10/10/2023	-	DS Number: 0000000095	Date of last issue: 06/24/2021 Date of first issue: 12/20/2016
Appli	cation Route	:	Oral	
	sure time	:	16 w	
Meth	bd	:	OECD Test Guid	eline 408
2-But	anone, peroxide:			
Spec	ies	:	Rat	
NOAI		:	200 mg/kg	
	cation Route	:	oral (gavage)	
•	sure time	:	28 d	
Meth	DO	:	OECD Test Guid	eline 407
	ated dose toxicity - ssment	:	Harmful if swallow	wed., Harmful if inhaled.
Hvdr	ogen peroxide:			
Spec	• •		Mouse, female	
NOAI		:	37 mg/kg	
Appli	cation Route	:	oral (drinking wat	er)
Expo	sure time	:	90 d	
Rema	arks	:	Hydrogen peroxic	de (H2O2), 35%
Spec		:	Mouse, males	
NOAI		:	26 mg/kg	
	cation Route	:	oral (drinking wat	er)
Rema	sure time arks		90 Hydrogen peroxid	de (H2∩2) 35%
Kenne		•	nyulogen peloxit	
	thylpentane-2,4-diol:			
Spec		:	Rat, male and fer	
NOAI		:	450 mg/kg bw/da	У
	cation Route	:	Ingestion	
•	sure time	:	90 OECD Test Guid	alina 408
Meth	UU	•	OECD Test Guid	
Aspir	ation toxicity			
•	•			

Not classified based on available information.

#### **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.

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2-me	thylpentane-2,4-diol:		
Based	d on available data, th	e classification criteria	are not met.
Furth	er information		
Produ	uct:		
Rema	ırks	: No data availat	ble
<u>Com</u> p	oonents:		
dime	thyl phthalate:		
Rema	ırks	: No data availat	ble
Trime	ethylpentanediol iso	outyrate:	
Rema	urks	: No data availab	ble
FOTION			
ECTION	12. ECOLOGICAL IN	FORMATION	
Ecoto	oxicity		

Components:

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



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			Method: OEC	D Test Guideline 209
	anone, peroxide: ity to fish	:	Exposure time	a reticulata (guppy)): 44.2 mg/l e: 96 h D Test Guideline 203
			Exposure time	ia reticulata (guppy)): 18 mg/l e: 96 h D Test Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time	a magna (Water flea)): 39 mg/l e: 48 h D Test Guideline 202
				ia magna (Water flea)): 26.7 mg/l D Test Guideline 202
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time	okirchneriella subcapitata (green algae)): 5.6 e: 72 h D Test Guideline 201
			mg/l Exposure time	lokirchneriella subcapitata (green algae)): 2.1 e: 72 h D Test Guideline 201
Toxic	ity to microorganisms	:	EC50 (Bacteri Exposure time Method: OEC	
Trim	ethylpentanediol isobut	vra	te:	
	ity to fish	:	NOEC (Fish): Exposure time	
	ity to daphnia and other invertebrates	:	EC50 (Daphni Exposure time	a): >= 1.46 mg/l ə: 48 h
			NOEC (Daphr Exposure time	
Toxic plants	ity to algae/aquatic s	:	Exposure time	la pyrenoidosa): > 7.49 mg/l e: 72 h D Test Guideline 201
	ic invertebrates (Chron-	:	LOEC (Daphn Exposure time	ia magna (Water flea)): 0.7 mg/l e: 21 d



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	Ecotox	icology Assessment			
		aquatic toxicity	:	This product has r	no known ecotoxicological effects.
	Chronic	aquatic toxicity	:	Harmful to aquation	life with long lasting effects.
	-	exanone, peroxide:			
	Toxicity	/ to fish	:	LC50 (Poecilia ret Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	Remarks: No data	available
	Toxicity plants	/ to algae/aquatic	:	Remarks: No data	available
	Toxicity	/ to microorganisms	:	EC10 (Bacteria): 7 Exposure time: 0.3 Method: OECD Te	5 h
	Hydrog	gen peroxide:			
	Toxicity	∕ to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 16.4 mg/l h
		to daphnia and other invertebrates	:	LC50 (Daphnia pu Exposure time: 48	lex (Water flea)): 2.4 mg/l h
	Toxicity plants	/ to algae/aquatic	:	EC50 (Skeletonen Exposure time: 72	na costatum (marine diatom)): 1.38 mg/l h
				NOEC (Skeletone Exposure time: 72	ma costatum (marine diatom)): 0.63 mg/l h
		v to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 0.63 mg/l d
	Toxicity	/ to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD Te	
	2-meth	ylpentane-2,4-diol:			
	Toxicity	/ to fish	:	LC50 (Gambusia Exposure time: 96 Method: OECD Te	
	-	v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	



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Toxici plants	ity to algae/aquatic	:	mg/l End point: Growt Exposure time: 7 Test Type: static	72 h
			729 mg/l End point: Growt Exposure time: 7 Test Type: static	72 h
Toxici	ty to microorganisms	:	Remarks: No dat	ta available
Butar	none:			
Toxici	ity to fish	:	Exposure time: 9	es promelas (fathead minnow)): 2,993 mg/l 96 h Fest Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	magna (Water flea)): 308 mg/l l8 h Fest Guideline 202
Toxici plants	ity to algae/aquatic	:	mg/I Exposure time: 9	rchneriella subcapitata (green algae)): 2,029 96 h Fest Guideline 201
Toxici	ity to microorganisms	:	NOEC (Pseudom Exposure time: 1 Method: DIN 38	
Persi	stence and degradabil	ity		
<u>Comp</u>	oonents:			
	<b>thyl phthalate:</b> gradability	:	Result: Readily b Method: OECD 1	viodegradable. Fest Guideline 301E
	<b>anone, peroxide:</b> gradability	:	Result: Readily b Method: OECD 1	oiodegradable. Fest Guideline 301D
Trime	ethylpentanediol isobut	tyra	te:	
	gradability		Result: rapidly bi	odegradable
			20 / 22	



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			Exposure time: 28	3 d
				est Guideline 301B
-	hexanone, peroxide:			
Biode	gradability	:	Result: rapidly bio Method: OECD To	odegradable est Guideline 301D
Hydro	ogen peroxide:			
Biode	gradability	:	Result: Readily bi	odegradable.
2-me	thylpentane-2,4-diol:			
Biode	gradability	:	aerobic Inoculum: activate	ed sludge
			Result: Readily bi	odegradable.
			Biodegradation: 8 Method: OECD To	81 % est Guideline 301F
	none:			
Biode	gradability	:	Result: Readily bi Method: OECD To	odegradable. est Guideline 301D
Bioa	ccumulative potential			
<u>Com</u>	<u>oonents:</u>			
dime	thyl phthalate:			
Bioac	cumulation	:	Bioconcentration Method: OECD To	
	ion coefficient: n- ol/water	:	log Pow: 1.54	
2-But	anone, peroxide:			
	ion coefficient: n- ol/water	:	log Pow: < 0.3 (25	5 °C)
Trime	ethylpentanediol isobu	tyra	te:	
Bioac	cumulation	:	Species: Fish Bioconcentration	factor (BCF): 1.95
	ion coefficient: n- ol/water	:	log Pow: 4.91 (25	°C)
cyclo	hexanone, peroxide:			
	ion coefficient: n- ol/water	:	log Pow: 1.26	



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Hydro	ogen peroxide:			
	ion coefficient: n- ol/water			) °C) tion refers to the main ingredient.
2-me	thylpentane-2,4-diol:			
	ion coefficient: n- ol/water	: log Po	ow: -0.14	
Butar	none:			
	ion coefficient: n- ol/water	: log Po	ow: 0.3 (40 °	°C)
Mobi	lity in soil			
No da	ata available			
Other	r adverse effects			
Produ	uct:			
Additi matio	ional ecological infor- n	unprof		hazard cannot be excluded in the event o ndling or disposal. c life.
<u>Com</u> p	oonents:			
dime	thyl phthalate:			
	ional ecological infor-	: No da	ta available	
ECTION	13. DISPOSAL CONSI	DERATION	S	

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 chemical 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.

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#### SECTION 14. TRANSPORT INFORMATION

**International Regulations** 

<b>UNRTDG</b> UN number		UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S), CYCLOHEXANONE PEROXIDE(S))
Class		5.2
Packing group	÷	Not assigned by regulation
Labels	:	5.2
IATA-DGR		
UN/ID No.	:	UN 3105
Proper shipping name	:	Organic peroxide type D, liquid (Methyl ethyl ketone peroxide(s), Cyclohexanone peroxide(s))
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	Organic Peroxides, Keep Away From Heat
Packing instruction (cargo aircraft)	:	570
Packing instruction (passen- ger aircraft)	:	570
IMDG-Code		
UN number	:	UN 3105
Proper shipping name	:	ORGANIC PEROXIDE TYPE D, LIQUID
		(METHYL ETHYL KETONE PEROXIDE(S), CYCLOHEXANONE PEROXIDE(S))
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	5.2
EmS Code	:	F-J, S-R
Marine pollutant	:	no
Transport in bulk according	to	Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **Domestic regulation**

<b>TDG</b> UN number Proper shipping name	:	UN 3105 ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S), CYCLOHEXANONE PEROXIDE(S))
Class Packing group Labels ERG Code Marine pollutant	:	5.2 II 5.2 145 no



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#### 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

NPRI Components :		dimethyl phthalate Butanone		
The ingredients of this prod	luct	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 obligations/restrictions apply		
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		

#### Canadian lists

No substances are subject to a Significant New Activity Notification.

The hazards on the label also apply to residues in the container.

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification. These safety instructions also apply to empty packaging which may still contain product residues.

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/



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	on Date format	: 10/10/2023 : mm/dd/yyyy		
Full te	ext of other abbrevia	tions		
ACGII ACGII CA AI	•	: ACGIH - Biolo : Canada. Albe	Threshold Limit Values (TLV) ogical Exposure Indices (BEI) rta, Occupational Health and Safety Code (table	
	C OEL C OEL	: Québec. Regi	sh Columbia OEL ulation respecting occupational health and safe- I, Part 1: Permissible exposure values for air- inants	
ACGII ACGII CA AI CA AI CA AI CA BO CA BO CA QO CA QO	H / TWA H / STEL H / C B OEL / TWA B OEL / STEL B OEL / (c) C OEL / TWA C OEL / STEL C OEL / C C OEL / TWAEV C OEL / STEV C OEL / C	<ul> <li>8-hour, time-v</li> <li>Short-term ex</li> <li>Ceiling limit</li> <li>8-hour Occup</li> <li>15-minute occ</li> <li>ceiling occupa</li> <li>8-hour time w</li> <li>short-term ex</li> <li>ceiling limit</li> <li>Time-weighted</li> </ul>	8-hour, time-weighted average Short-term exposure limit Ceiling limit 8-hour Occupational exposure limit 15-minute occupational exposure limit ceiling occupational exposure limit 8-hour time weighted average short-term exposure limit ceiling limit Time-weighted average exposure value Short-term exposure value	

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,

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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

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