according to the Hazardous Products Regulations





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SECTION 1. IDENTIFICATION

Trade name	:	NOROX [®] MEKP-30				
Other means of identification	:	No data available				
Manufacturer or supplier's o	leta	ils				
Company name of supplier	:	United Initiators, Inc.				
Address	:	555 Garden Street Elyria OH 44035 USA				
		United Initiators Canada Ltd. 2147 PG Pulp Mill Road Prince George, BC-V2N 2S6 CANADA				
Telephone	:	+1-440-323-3112				
Telefax	:	+1-440-323-2659				
Emergency telephone	:	CHEMTREC US (24h): CHEMTREC WORLD (24h): CANUTEC (24h):	+1-800-424-9300 +1-703-527-3887 1-613-996-6666			
For Transportation Incidents	:	TERRAPURE EMERGENCY RESPON 1-800-567-7455	ISE SERVICES (24h):			
E-mail address of person responsible for the SDS	:	cs-initiators.nafta@united-in.com				
Recommended use of the chemical and restrictions on use						
Recommended use	:	Hardener				

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Flammable liquids	:	Category 4
Organic peroxides	:	Type D
Skin corrosion	:	Category 1
Serious eye damage	:	Category 1

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Repro	oductive toxicity	: Category 2	
Short hazar	-term (acute) aquatic rd	: Category 3	
GHS	label elements		
Haza	rd pictograms		
Signa	al Word	: Danger	
Haza	rd Statements	H314 Causes H361 Suspect	tible liquid. may cause a fire. severe skin burns and eye damage. ted of damaging fertility or the unborn child. to aquatic life.
Preca	autionary Statements	P202 Do not h and understoo P210 Keep av and other ignit P234 Keep or P240 Ground P264 Wash sl P273 Avoid re P280 Wear pr	special instructions before use. nandle until all safety precautions have been read d. vay from heat, hot surfaces, sparks, open flames tion sources. No smoking. hly in original packaging. and bond container and receiving equipment. kin thoroughly after handling. elease to the environment. otective gloves/ protective clothing/ eye protectior n/ hearing protection.
		induce vomitin P303 + P361 all contaminat P304 + P340 and keep com CENTER/ doc P305 + P351 water for seve and easy to do CENTER/ doc P308 + P313 attention. P363 Wash co P370 + P378	 + P353 IF ON SKIN (or hair): Take off immediately ed clothing. Rinse skin with water. + P310 IF INHALED: Remove person to fresh air ifortable for breathing. Immediately call a POISON tor. + P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present p. Continue rinsing. Immediately call a POISON

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		Storage: P403 Store in a	well-ventilated place.
		P405 Store locl P410 Protect fro	ked up. om sunlight. emperatures not exceeding < 100 °F/ < 38 °C.
		Disposal: P501 Dispose of posal plant.	contents/ container to an approved waste dis-
Other None k	hazards mown.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture	

Chemical nature	:	Organic Peroxide
		Liquid

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
dimethyl phthalate	dimethyl phtha- late	131-11-3	>= 55 - < 65 *
2-Butanone, peroxide	2-Butanone, peroxide	1338-23-4	>= 20 - < 25 *
Trimethylpentanediol isobutyrate	Trimethylpenta- nediol isobuty- rate	6846-50-0	>= 10 - < 15 *
Butanone	Butanone	78-93-3	>= 1 - < 5 *
Hydrogen peroxide	Hydrogen pe- roxide	7722-84-1	>= 1 - < 5 *

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice

: Take off contaminated clothing and shoes immediately. Call a physician immediately. Never give anything by mouth to an unconscious person.





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		advice. Move out of Show this m attendance. Do not leave	us, place in recovery position and seek medical dangerous area. aterial safety data sheet to the doctor in the victim unattended. f poisoning may appear several hours later.
lf inha	aled	observed. If breathed in If not breathi Respiratory Call a physic If unconsciou advice.	exygen if breathing is difficult or cyanosis is n, move person into fresh air. ng, give artificial respiration. tract burning possible if aerosols are inhaled. sian or poison control center immediately. us, place in recovery position and seek medical tory tract clear.
In ca	se of skin contact	Immediate n wounds from difficulty. In case of co for at least 1 and shoes. Wash contar If on skin, rir	persist, call a physician. nedical treatment is necessary as untreated a corrosion of the skin heal slowly and with potact, immediately flush skin with plenty of water 5 minutes while removing contaminated clothing minated clothing before re-use. use well with water. , remove clothes.
In ca	se of eye contact	tissue dama In the case of of water and Continue rin Remove con Protect unha Keep eye wi	
lf swa	allowed	Rinse mouth Keep respira Do NOT indu	cian immediately. thoroughly with water. tory tract clear. uce vomiting. persist, call a physician.
	important symptoms effects, both acute and red		ous eye damage. f damaging fertility or the unborn child. ere burns.
Prote	ection of first-aiders		conders should pay attention to self-protection recommended protective clothing

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I	Notes t	o physician	:	Treat symptomati	cally and supportively.
SECTION 5. FIRE-FIGHTING MEASURES					
Ş	Suitable	e extinguishing media	:	Water spray jet Alcohol-resistant Carbon dioxide (C Dry chemical	
	Unsuita media	ble extinguishing	:	High volume wate	r jet
	Specific	c hazards during fire	:	Possible emission lead to a dangerou Avoid confinemen Contact with incor temperatures exc accelerating deco vapors which may The product burns Flash back possib Do not allow run-o courses. Vapors may form	npatible materials or exposure to eeding SADT may result in a self- mposition reaction with release of flammable v auto-ignite.
	Specific ods	c extinguishing meth-	:	fire. Remove undamag so.	I water stream as it may scatter and spread ged containers from fire area if it is safe to do o cool unopened containers.
I	Further	information	:	circumstances an 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 for fire-f	protective equipment fighters	:	necessary.	ed breathing apparatus for firefighting if ective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-	:	Follow safe handling advice and personal protective
tive equipment and emer-		equipment recommendations.

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genc	y procedures	concentration Use person Remove all Never retur	vapors accumulating to form explosive ons. Vapors can accumulate in low areas. al protective equipment. sources of ignition. n spills in original containers for re-use. ered material as described in the section "Disposal ons".
Envi	ronmental precautions	Prevent fur	oduct from entering drains. ther leakage or spillage if safe to do so. ct contaminates rivers and lakes or drains inform authorities.
	nods and materials for ainment and cleaning up	decomposit Clear spills Suppress (jet. To clean th material, us Soak up wi Isolate was Non-sparkir Local or na disposal of employed i	h incompatible substances can cause ion at or below SADT. immediately. knock down) gases/vapors/mists with a water spray e floor and all objects contaminated by this se plenty of water. th inert absorbent material. te and do not reuse. ng tools should be used. tional regulations may apply to releases and this material, as well as those materials and items in the cleanup of releases. You will need to which regulations are applicable.

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.
Advice on safe handling	:	Open drum carefully as content may be under pressure. Protect from contamination. Do not swallow. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid formation of aerosol. Take precautionary measures against static discharges.

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Conditions for safe storage		Never return any product to the container from which it was originally removed. Provide sufficient air exchange and/or exhaust in work row Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the application area. Wash thoroughly after handling. For personal protection see section 8.				
			Store in cool pl Keep in a well- Contamination closed containe Observe label p Store in accord Avoid impurities Electrical instal the technologic Containers white	entilated place. may result in dangerous pressure increases - ers may rupture.		
Ma	aterials to avoid	:		n combustible materials. n strong acids, bases, heavy metal salts and substances.		
	commended storage tem- rature	em- : <38 °C				
	rther information on stor- e stability	:	Stable under re	commended storage conditions.		

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
dimethyl phthalate	131-11-3	TWA	5 mg/m3	CA AB OEL
		TWA	5 mg/m3	CA BC OEL
		TWAEV	5 mg/m3	CA QC OEL
		TWA	5 mg/m3	ACGIH
2-Butanone, peroxide	1338-23-4	(c)	0.2 ppm	CA AB OEL

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			1.4 mg/m3	
		С	0.2 ppm	CA BC OEL
		С	0.2 ppm 1.5 mg/m3	CA QC OEL
		С	0.2 ppm	ACGIH
Butanone	78-93-3	TWA	200 ppm 590 mg/m3	CA AB OEL
		STEL	300 ppm 885 mg/m3	CA AB OEL
		TWA	50 ppm	CA BC OEL
		STEL	100 ppm	CA BC OEL
		TWAEV	50 ppm 150 mg/m3	CA QC OEL
		STEV	100 ppm 300 mg/m3	CA QC OEL
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
Hydrogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m3	CA AB OEL
		TWA	1 ppm	CA BC OEL
		TWAEV	1 ppm	CA QC 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

: Minimize workplace exposure concentrations.

Personal protective equipment

Engineering measures

i oloonal protootiro oquipino		
Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.
Filter type	:	ABEK-filter
		Use NIOSH approved respiratory protection.
Hand protection Material Break through time Glove thickness	:	butyl-rubber <= 480 min 0.5 mm





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Br	aterial eak through time ove thickness	: Nitrile : < 30 m : 0.4 mn	nin
Re	emarks	standa materia protect chemic hazard For sp resista gloves	ata about break through time/strength of material are ind values! The exact break through time/strength of al has to be obtained from the producer of the tive glove. Choose gloves to protect hands against cals depending on the concentration and quantity of the lous substance and specific to place of work. becial applications, we recommend clarifying the ince to chemicals of the aforementioned protective with the glove manufacturer. Wash hands before and at the end of workday.
Eye p	protection	to the Please selecti Always eye co Tightly Please	e that eyewash stations and safety showers are close workstation location. e follow all applicable local/national requirements when ng protective measures for a specific workplace. s wear eye protection when the potential for inadvertent intact with the product cannot be excluded. fitting safety goggles e wear suitable protective goggles. Also wear face tion if there is a splash hazard.
Skin i	Skin and body protection		appropriate protective clothing based on chemical ince data and an assessment of the local exposure ial. onal body garments should be used based upon the eing performed (e.g., sleevelets, apron, gauntlets, able suits) to avoid exposed skin surfaces. as appropriate:
Prote	ctive measures	: The ty to the	retardant antistatic protective clothing. pe of protective equipment must be selected according concentration and amount of the dangerous substance specific workplace.
Hygie	Hygiene measures		contact with skin, eyes and clothing. away from food and drink. using do not eat or drink. using do not smoke. hands before breaks and immediately after handling oduct.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	colorless
Odor	:	slight
рН	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	not determined
Flash point	:	> 76 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	The substance or mixture is not classified as self heating. The substance or mixture is not classified as pyrophoric.
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	:	1.2 g/cm3
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	No data available
Self-Accelerating decomposi- tion temperature (SADT)	:	60 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a

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		self-accelerat	ing decomposition reaction.
Visco Vis	sity scosity, dynamic	: No data availa	able
Vi	scosity, kinematic	: not determine	ed
Oxidiz	zing properties	: The substand Organic pero:	ce or mixture is not classified as oxidizing. xide

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	:	Vapors may form explosive mixture with air.
Conditions to avoid	:	Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.
Incompatible materials	:	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
Hazardous decomposition products	:	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity								
Not classified due to lack of da	Not classified due to lack of data.							
Product:								
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method						
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h						





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			Test atmosph Method: Calci	ere: dust/mist ulation method			
A	cute dermal toxicity	:		estimate: > 2,000 mg/kg Jation method			
<u>C</u>	components:						
d	imethyl phthalate:						
	cute oral toxicity	:	LD50 (Rat): >	5,000 mg/kg			
A	cute inhalation toxicity	:	(Rat): > 10.4 mg/l Exposure time: 6 h Test atmosphere: vapor Remarks: No mortality observed at this dose.				
A	cute dermal toxicity	:	LD50 (Rabbit)	: > 12,000 mg/kg			
2	-Butanone, peroxide:						
	cute oral toxicity	:	Acute toxicity Method: Expe	estimate: 500 mg/kg rt judgment			
A	cute inhalation toxicity	:	Exposure time Test atmosph Method: Expe Assessment: short term inh	ere: dust/mist rt judgment The component/mixture is moderately toxic after			
A	cute dermal toxicity	: Acute toxicity estimate: 2,50 Method: Expert judgment					
т	rimethylpentanediol iso	butvra	te ·				
	cute oral toxicity	-	LD50 (Rat): > Method: Expe				
A	cute inhalation toxicity	:	tion toxicity	e: 6 h ere: vapor			
A	cute dermal toxicity	:	Method: Expe	pig): > 2,000 mg/kg rt judgment The substance or mixture has no acute dermal			





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				toxicity		
E	Butanc	one:				
		oral toxicity	:	LD50 (Rat): 2,193 Method: OECD Te		
A	Acute i	nhalation toxicity	:	Remarks: No data	a available	
ļ	Acute dermal toxicity		:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on available data, the classification criteri are not met.		
ł	Hvdroc	jen peroxide:				
		oral toxicity	:	Method: Expert ju	and female): 431 mg/kg idgment component/mixture is moderately toxic after	
ļ	Acute i	nhalation toxicity	:	short term inhalat	h dust/mist component/mixture is moderately toxic after ion. on harmonised classification in EU regulation	
ļ	Acute o	dermal toxicity	:	LD50 (Rabbit): 9, Remarks: No adv icity tests.	200 mg/kg erse effect has been observed in acute tox-	
S	Skin co	orrosion/irritation				
(Causes	severe burns.				
<u>F</u>	Produc	<u>xt:</u>				
F	Remark	(S	:	Extremely corrosi	ve and destructive to tissue.	
<u>(</u>	Compo	onents:				
c	dimeth	yl phthalate:				
	Specie		:	Rabbit		
	Method Result	l	:	Draize Test No skin irritation		
		none, peroxide:				
	Species Result	6	:	Rabbit Causes burns.		
г	1762011		•	Causes Duins.		

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Trime	thylpentanediol iso	butyrate:						
Specie		: Guinea pig						
	ure time	: 24 h						
Result			No skin irritation					
Rema	rks	: Based on availa	able data, the classification criteria are not m					
Butan	one:							
Specie	es	: Rabbit						
-	sment		sure may cause skin dryness or cracking.					
Metho	d	: OECD Test Gu						
Result	t	: No skin irritatio						
Hydro	gen peroxide:							
Result		: Corrosive after	3 minutes or less of exposure					
Serio	us eye damage/eye	irritation						
	es serious eye dama							
Produ	ict:							
Rema		: May cause irre	versible eye damage.					
<u>Comp</u>	onents:							
dimet	hyl phthalate:							
Specie		: Rabbit						
Result		: No eye irritation						
Metho		: OECD Test Gu						
2-Buta	anone, peroxide:							
Result	-	: Irreversible effe	ects on the eye					
Trimo	the disc interne discline	huturata.						
	thylpentanediol iso	-						
Specie		: Rabbit						
Result		: No eye irritation	1					
Expos	ure time	: 24 h						
Butan	ione:							
Specie		: Rabbit						
Result		: Eye irritation						
Metho	d	: OECD Test Gu	ideline 405					
	gen peroxide:							
Hydro	gen perekiaei							
Hydro Result		: Irreversible effe	ects on the eve					

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Respiratory or skin sensitization Skin sensitization Not classified due to lack of data. Respiratory sensitization Not classified due to lack of data. Components: dimethyl phthalate: Species Mouse Method : OECD Test Guideline 429 Result : Does not cause skin sensitization Petition : OECD Test Guideline 429 Result : Does not cause skin sensitization Petition : OECD Test Guideline 406 Result : Does not cause skin sensitization Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: : Does not cause skin sensitization Species : Guinea pig Result : Does not cause skin sensitization Hatmone: : Does not cause skin sensitization Butanone: : Does not cause skin sensitization Result : Does not cause skin sensitization Method : OECD Test Guideline 406 Result : Does not cause skin sensitization Species : Guinea pig Method : OECD Test Guideline 406 Result :	
Skin sensitization Not classified due to lack of data. Respiratory sensitization Not classified due to lack of data. Components: dimethyl phthalate: Species Mouse Method OECD Test Guideline 429 Result Does not cause skin sensitization Provide OECD Test Guideline 429 Result Does not cause skin sensitization Provide OECD Test Guideline 406 Result Does not cause skin sensitization Assessment Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species Species Guinea pig Result Does not cause skin sensitization Does not cause skin sensitization Does not cause skin sensitization Method OECD Test Guideline 406 Result Does not cause skin sensitization Species Guinea pig Method OECD Test Guideline 406 Result Does not cause skin sensitization Species Guinea pig Method Does not cause skin sensitization Species Guinea pig	
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Respiratory sensitization Not classified due to lack of data. Components: dimethyl phthalate: Species : Method : Species : Method : OECD Test Guideline 429 Result : Does not cause skin sensitization Assessment : Guinea pig Method : Assessment : Trimethylpentanediol isobutyrate: Species : Species : Butanone: Result : Does not cause skin sensitization Butanone: Routes of exposure : Species : Guinea pig Method : Does not cause skin sensitization Butanone: Routes of exposure : Species : Germ cell mutagenicity Not classified due to lack of data. Components: dimethyl phthalate: Genotoxicity in vitro : </td <td></td>	
Not classified due to lack of data. Components: dimethyl phthalate: Species : Mouse Method : OECD Test Guideline 429 Result : Does not cause skin sensitization 2-Butanone, peroxide: : Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitization Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species Species : Guinea pig Result : Does not cause skin sensitization Butanone: : Does not cause skin sensitization Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitization Germ cell mutagenicity Not classified due to lack of data. Components: : Method: OECD Test Guideline Result: negative Genotoxicity in vitro : Method: OECD Test Guideline Result: negative	
Components: dimethyl phthalate: Species : Mouse Method : OECD Test Guideline 429 Result : Does not cause skin sensitization 2-Butanone, peroxide: . Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitization Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species Species : Guinea pig Result : Does not cause skin sensitization Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species Species : Guinea pig Result : Does not cause skin sensitization Butanone: : Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitization Germ cell mutagenicity Not classified due to lack of data. Components: : dimethyl phthalate: : Genotoxicity in vitro	
dimethyl phthalate: Species : Mouse Method : OECD Test Guideline 429 Result : Does not cause skin sensitizat 2-Butanone, peroxide: : Species Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitizat Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species : Species : Guinea pig Result : Does not cause skin sensitizat Butanone: : Does not cause skin sensitizat Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitizat Germ cell mutagenicity Not classified due to lack of data. Components: : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline : Method: OECD Test Guideline :	
Species : Mouse Method : OECD Test Guideline 429 Result : Does not cause skin sensitiza 2-Butanone, peroxide: : Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species Species : Guinea pig Result : Does not cause skin sensitiza Butanone: : Does not cause skin sensitiza Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Germ cell mutagenicity Not classified due to lack of data. Components: imethyl phthalate: Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline Result: negative	
Method : OECD Test Guideline 429 Result : Does not cause skin sensitiza 2-Butanone, peroxide: : Species Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species : Species : Guinea pig Result : Does not cause skin sensitiza Butanone: : Guinea pig Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Germ cell mutagenicity Not classified due to lack of data. Components: : Method: OECD Test Guideline Result: negative dimethyl phthalate: : Method: OECD Test Guideline Result: negative	
2-Butanone, peroxide: Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitizat Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species Species : Guinea pig Result : Does not cause skin sensitizat Butanone: : Does not cause skin sensitizat Routes of exposure : Skin contact Species : Guinea pig Method : Does not cause skin sensitizat Butanone: : Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitizat Germ cell mutagenicity Not classified due to lack of data. Components: : dimethyl phthalate: : Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline :	
Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitizat Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species Species : Guinea pig Result : Does not cause skin sensitizat Butanone: : Does not cause skin sensitizat Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitizat Germ cell mutagenicity Not classified due to lack of data. Components: dimethyl phthalate: Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline Result: negative	tion.
Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species Species : Guinea pig Result : Does not cause skin sensitiza Butanone: : Does not cause skin sensitiza Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Butanone: : Guinea pig Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Germ cell mutagenicity Not classified due to lack of data. Components: : dimethyl phthalate: Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline Result: negative	
Result : Does not cause skin sensitization Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species Species : Guinea pig Result : Does not cause skin sensitization Butanone: : Does not cause skin sensitization Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitization Germ cell mutagenicity Not classified due to lack of data. Components: dimethyl phthalate: Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline Method: OECD Test Guideline	
Assessment : Harmful if swallowed., Harmful Trimethylpentanediol isobutyrate: Species : Species : Guinea pig Result : Does not cause skin sensitization Butanone: : Skin contact Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitization Germ cell mutagenicity : Does not cause skin sensitization Not classified due to lack of data. : Does not cause skin sensitization Genotoxicity in vitro : Method: OECD Test Guideline 406 Result: negative : Method: OECD Test Guideline 406	tion
Trimethylpentanediol isobutyrate: Species : Guinea pig Result : Does not cause skin sensitization Butanone: : Skin contact Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitization Germ cell mutagenicity Not classified due to lack of data. Components: : dimethyl phthalate: : Genotoxicity in vitro : Method: OECD Test Guideline Result: negative	
Species : Guinea pig Result : Does not cause skin sensitiza Butanone: : Skin contact Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Germ cell mutagenicity Not classified due to lack of data. Components: : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline :	if inhaled.
Result : Does not cause skin sensitization Butanone: : Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitization Germ cell mutagenicity Not classified due to lack of data. Components: : dimethyl phthalate: : Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline	
Butanone: Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitization Germ cell mutagenicity . Not classified due to lack of data. Components: dimethyl phthalate: Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline	
Routes of exposure : Skin contact Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Germ cell mutagenicity Not classified due to lack of data. Components: dimethyl phthalate: Genotoxicity in vitro : Method: OECD Test Guideline Result: negative	tion.
Species : Guinea pig Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Germ cell mutagenicity Not classified due to lack of data. Components: dimethyl phthalate: Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline Method: OECD Test Guideline	
Method : OECD Test Guideline 406 Result : Does not cause skin sensitiza Germ cell mutagenicity Not classified due to lack of data. Not classified due to lack of data. Components: dimethyl phthalate: Genotoxicity in vitro Genotoxicity in vitro : Method: OECD Test Guideline Method: OECD Test Guideline	
Result : Does not cause skin sensitization Germ cell mutagenicity Not classified due to lack of data. Not classified due to lack of data. Components: dimethyl phthalate: Genotoxicity in vitro Genotoxicity in vitro : Method: OECD Test Guideline Method: OECD Test Guideline	
Not classified due to lack of data. <u>Components:</u> dimethyl phthalate: Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline	tion.
Not classified due to lack of data. <u>Components:</u> dimethyl phthalate: Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline	
Components: dimethyl phthalate: Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline	
Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline	
Genotoxicity in vitro : Method: OECD Test Guideline Result: negative Method: OECD Test Guideline	
Method: OECD Test Guideline	471
	470
Result: negative	413
Method: OECD Test Guideline Result: positive	476
Genotoxicity in vivo : Test Type: Chromosomal abe Species: Rat	

according to the Hazardous Products Regulations



Versio 4.0	on	Revision Date: 04/19/2024		DS Number: 0000000097	Date of last issue: 07/19/2021 Date of first issue: 09/30/2016
				Result: negative	
				Test Type: Micron Species: Mouse Application Route: Result: negative	ucleus test Intraperitoneal injection
2	2-Butar	none, peroxide:			
		xicity in vitro	:	Method: OECD Te Result: negative	est Guideline 473
				Method: OECD Te Result: negative	est Guideline 471
				Method: OECD Te Result: negative	est Guideline 476
т	Frimetł	nylpentanediol isobu	tvra	te:	
		xicity in vitro	:		mammalian cell gene mutation test est Guideline 476
				Test Type: Ames Method: Regulatio (Ames test) Result: negative	test n (EC) No. 440/2008, Annex, B.13/14
				Test Type: Chrom Method: OECD Te Result: negative	osome aberration test in vitro est Guideline 473
E	Butano	ne:			
G	Genoto	xicity in vitro	:	Method: OECD Te Result: negative	est Guideline 471
				Method: OECD Te Result: negative	est Guideline 476
				Method: OECD Te Result: negative	est Guideline 473
G	Genoto	xicity in vivo	:	Species: Mouse Application Route: Method: OECD Te Result: negative	•
		en peroxide: xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)





ersion 0	Revision Date: 04/19/2024		0S Number: 0000000097	Date of last issue: 07/19/2021 Date of first issue: 09/30/2016		
			positive Remarks: Infor literature.	mation taken from reference works and the		
			Method: OECI Result: positive	romosome aberration test in vitro D Test Guideline 473 e mation taken from reference works and the		
Genotoxicity in vivo		:	 Test Type: Mammalian erythrocyte micronucleus test (cytogenetic assay) Species: Mouse (male and female) Method: OECD Test Guideline 474 Result: negative Remarks: Hydrogen peroxide (H2O2), 35% 			
	cell mutagenicity - ssment	:	Based on avail	able data, the classification criteria are not me		
	nogenicity lassified due to lack of	data.				
Components:						
dime	thyl phthalate:					
Speci Applic Metho Resul Rema	cation Route od It	:	Rat Skin contact OECD Test G negative Based on data	uideline 451 from similar materials		
2-But	anone, peroxide:					
Rema	-	:	This information	n is not available.		
-	ogen peroxide: nogenicity - Assess-	:	Carcinogenicit	y classification not possible from current data.		
ment						
-	oductive toxicity ected of damaging fertil	lity or	the unborn chi	ld.		
<u>Com</u>	ponents:					
dime	thyl phthalate:					
Effect	s on fertility	:		ute: oral (gavage) D Test Guideline 440 ⁄e		

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Versio 4.0	n	Revision Date: 04/19/2024		9S Number: 0000000097	Date of last issue: 07/19/2021 Date of first issue: 09/30/2016
E	ffects	on fetal development	:		Maternal: NOAEL: 840 mg/kg body weight oxicity: NOAEL: 3,570 mg/kg body weight
2-	-Butar	none, peroxide:			
		on fertility	:	Species: Rat Application Route General Toxicity F Method: OECD Te Result: negative	Parent: NOAEL: 50 mg/kg body weight
Т	rimeth	nylpentanediol isobu	tyra	te:	
E	ffects	on fetal development	:	Test Type: One-ge Species: Rat Application Route Method: OECD Te Result: negative	
	leprodu essme	uctive toxicity - As- ent	:	evidence of advers	naging fertility or the unborn child., Some se effects on sexual function and fertility, ment, based on animal experiments.
В	utano	ne:			
E	ffects	on fertility	:	General Toxicity F General Toxicity F Method: OECD Te	: oral (drinking water) Parent: NOAEL: 10,000 mg/l F1: NOAEL: 10,000 mg/l est Guideline 416 on data from similar materials
				General Toxicity F Method: OECD Te	: oral (drinking water) ^P arent: LOAEL: 20,000 mg/l est Guideline 416 on data from similar materials
E	ffects	on fetal development	:	weight	Maternal: NOAEC: ca. 1,002 mg/kg body DAEC Parent: ca. 1,002 mg/kg body weight
Н	lydrog	en peroxide:			

Reproductive toxicity - As- : No data available

Reproductive	toxicity - AS-	•	NO Gala available	
sessment				





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STOT-single exposure Not classified due to lack of data.	
Components:	
Butanone: Assessment :	May cause drowsiness or dizziness.
Hydrogen peroxide:Target Organs:Assessment:	Respiratory Tract May cause respiratory irritation.
STOT-repeated exposure Not classified due to lack of data.	
Components:	
Hydrogen peroxide: Remarks :	No data available
Repeated dose toxicity	
Components:	
dimethyl phthalate:	
Species:NOAEL:Application Route:Exposure time:Method:	Rat 770 mg/kg Oral 16 w OECD Test Guideline 408
2-Butanone, peroxide:	
Species : NOAEL : Application Route : Exposure time :	Rat 200 mg/kg oral (gavage) 28 d OECD Test Guideline 407
Repeated dose toxicity - : Assessment	Harmful if swallowed., Harmful if inhaled.
Hydrogen peroxide:	
Species:NOAEL:Application Route:Exposure time:Remarks:	Mouse, female 37 mg/kg oral (drinking water) 90 d Hydrogen peroxide (H2O2), 35%

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Species NOAEL Application Route Exposure time	:	Mouse, males 26 mg/kg oral (drinking water) 90
Remarks	-	Hydrogen peroxide (H2O2), 35%
rtomanto	•	

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

dimethyl phthalate:

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 39 mg/lExposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): > 52 mg/l





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	aquatic	invertebrates		Exposure time: 48 h				
	Toxicity to algae/aquatic plants		:	: EC50 (Desmodesmus subspicatus (green algae)): 26 Exposure time: 72 h				
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oncorhynd Exposure time: 10 Method: OECD Te				
				LOEC (Oncorhync Exposure time: 10 Method: OECD Te				
		to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 9.6 mg/l d			
				LOEC (Daphnia m Exposure time: 21	nagna (Water flea)): 23 mg/l d			
	Toxicity	to microorganisms	:	EC50: 4,100 mg/l Exposure time: 0.9 Method: OECD Te				
	2-Butar	none, peroxide:						
	Toxicity	to fish	:	LC50 (Poecilia ret Exposure time: 96 Method: OECD Te				
				NOEC (Poecilia re Exposure time: 96 Method: OECD Te				
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te				
				NOEC (Daphnia n Method: OECD Te	nagna (Water flea)): 26.7 mg/l sst Guideline 202			
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 72 Method: OECD Te				
				NOEC (Pseudokiro mg/l Exposure time: 72 Method: OECD Te				
	Toxicity	to microorganisms	:	EC50 (Bacteria): 4	18 mg/l			





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			Exposure time: 0. Method: OECD Te	
Trime	ethylpentanediol isobut	tyra	te:	
Toxici	ity to fish	:	NOEC (Fish): >= 6 Exposure time: 96 Method: OECD Te	3 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia): : Exposure time: 48	
			NOEC (Daphnia): Exposure time: 21	
Toxici plants	ity to algae/aquatic	:	EC50 (Chlorella p Exposure time: 72 Method: OECD Te	
	ity to daphnia and other ic invertebrates (Chron-icity)	:	LOEC (Daphnia m Exposure time: 21	nagna (Water flea)): 0.7 mg/l ⊢d
Ecoto	oxicology Assessment			
Acute	e aquatic toxicity	:	This product has r	no known ecotoxicological effects.
Chron	nic aquatic toxicity	:	Harmful to aquation	life with long lasting effects.
Butar	none:			
Toxici	ity to fish	:	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxici plants	ity to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 96 Method: OECD Te	
Toxici	ity to microorganisms	:	NOEC (Pseudomo Exposure time: 16 Method: DIN 38 4	
-	ogen peroxide: ity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 16.4 mg/l 5 h

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	Toxicity to daphnia and other aquatic invertebrates		:	LC50 (Daphnia pulex (Water flea)): 2.4 mg/l Exposure time: 48 h	
	Toxicity to algae/aquatic plants		:	EC50 (Skeletonema costatum (marine diatom)): 1.38 mg Exposure time: 72 h	
				NOEC (Skeletoner Exposure time: 72	ma costatum (marine diatom)): 0.63 mg/l h
	-	to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 0.63 mg/l d
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3 I Method: OECD Te	ludge): > 1,000 mg/l h est Guideline 209
	Persist	ence and degradabil	ity		
	<u>Compo</u>	onents:			
	dimeth	yl phthalate:			
	Biodegr	adability	:	Result: Readily bio Method: OECD Te	odegradable. est Guideline 301E
	2-Butanone, peroxide:				
	Biodegr	adability	:	Result: Readily bid Method: OECD Te	odegradable. est Guideline 301D
	Trimet	hylpentanediol isobut	tyra	te:	
	Biodegr	adability	:	Result: rapidly bio Exposure time: 28 Method: OECD Te	
	Butano	ne:			
	Biodegr	adability	:	Result: Readily bid Method: OECD Te	odegradable. est Guideline 301D
	Hydrog	en peroxide:			
	Biodegr	adability	:	Result: Readily bio	odegradable.
	Bioaccumulative potential				
	<u>Compo</u>	onents:			
		yl phthalate: umulation	:	Bioconcentration f Method: OECD Te	

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	ion coefficient: n- ol/water	:	log Pow: 1.54	
2-Butanone, peroxide:				
Partit	ion coefficient: n- ol/water	:	log Pow: < 0.3 (2	25 °C)
Trime	ethylpentanediol isobu	utvra	te:	
	cumulation	:	Species: Fish	factor (BCF): 1.95
	ion coefficient: n- ol/water	:	log Pow: 4.91 (2	5 °C)
Butar	none:			
	ion coefficient: n- ol/water	:	log Pow: 0.3 (40	°C)
Hydro	ogen peroxide:			
	ion coefficient: n- ol/water	:	log Pow: -1.57 (2 Remarks: Informa Calculation	20 °C) ation refers to the main ingredient.
Mobi	lity in soil			
No da	ata available			
Othe	r adverse effects			
Prod	uct:			
Additi matio	-	:		hazard cannot be excluded in the event andling or disposal. ic life.
<u>Com</u>	oonents:			
dime	thyl phthalate:			
	onal ecological infor-	:	No data available	

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.

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Contar	ninated packaging	 chemical or use Dispose of in ac Clean container Dispose of conte plant. Empty remaining Dispose of as un Do not re-use en 	cordance with local regulations. with water. ents/ container to an approved waste disposal g contents. hused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

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TDG

UN number Proper shipping name	:	UN 3105 ORGANIC PEROXIDE TYPE D, LIQUID (METHYL ETHYL KETONE PEROXIDE(S))
Class	:	5.2
Packing group	:	II
Labels	:	5.2
ERG Code	:	145
Marine pollutant	:	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

NPRI Components		dimethyl phthalate Butanone				
The ingredients 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 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.

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

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

Revision Date	:	04/19/2024
Date format	:	mm/dd/yyyy

Full text of other abbreviations

ACGIH ACGIH BEI CA AB OEL	: : :	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL CA QC OEL	:	Canada. British Columbia OEL Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA ACGIH / STEL ACGIH / C CA AB OEL / TWA CA AB OEL / STEL CA AB OEL / C CA BC OEL / TWA CA BC OEL / STEL CA BC OEL / C CA QC OEL / TWAEV CA QC OEL / STEV CA QC OEL / C	:	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 Ceiling

AllC - 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 Sys-

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tem; 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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