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Versi 3.0	ion	Revision Date: 08/07/2023	-	05 Number: 0000000292	Date of last issue: 0 Date of first issue: 1		
SECT	TION 1	. IDENTIFICATION					
	Trade r	name	:	NOROX [®] CHP			
(Other n	neans of identification	:	No data available			
	CAS-No	Э.	:	80-15-9			
		acturer or supplier's on supplier's of supplier			nc.		
	Address		:	555 Garden Street Elyria OH 44035 USA			
				United Initiators C 2147 PG Pulp Mil Prince George, B0			
	Telepho	one	:	+1-440-323-3112			
	Telefax		:	+1-440-323-2659			
I	Emerge	ency telephone	:	CHEMTREC US (CHEMTREC WOI CANUTEC (24h):		+1-800-424-9300 +1-703-527-3887 1-613-996-6666	
I	For Tra	nsportation Incidents	:	TERRAPURE EM 1-800-567-7455	ERGENCY RESPON	ISE SERVICES (24h):	
		address of person sible for the SDS	:	cs-initiators.nafta@	⊉united-in.com		
		mended use of the c	hen :	nical and restrictio			

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Flammable liquids	:	Category 4
Flammable liquids	:	Category 4
Organic peroxides	:	Type F
Acute toxicity (Oral)	:	Category 4



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Acute to	oxicity (Inhalation)	:	Category 3	
Acute to	oxicity (Dermal)	:	Category 4	
Skin co	rrosion	:	Category 1B	
Serious	eye damage	:	Category 1	
Carcino	genicity	:	Category 1B	
	atarget organ toxicity exposure	:	Category 3 (Re	spiratory system)
	e target organ toxicity ed exposure	:	Category 2	
Aspirati	on hazard	:	Category 1	
Short-te hazard	erm (acute) aquatic	:	Category 2	
Long-te hazard	rm (chronic) aquatic	:	Category 2	
GHS la	bel elements			
Hazard	pictograms	:		
Signal \	Nord	:	Danger	• • • • •
Hazard	Statements	:	H302 + H312 H H304 May be fa H314 Causes s H331 Toxic if ir H335 May caus H350 May caus H373 May caus repeated expos	nay cause a fire. larmful if swallowed or in contact with skin. atal if swallowed and enters airways. severe skin burns and eye damage. haled. se respiratory irritation. se cancer. se damage to organs through prolonged or
Precaut	ionary Statements	:	P202 Do not ha and understood	pecial instructions before use. andle until all safety precautions have been re l. ay from heat, hot surfaces, sparks, open flame



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		P234 Keep on P240 Ground a P260 Do not b P264 Wash sk P270 Do not e P271 Use only P273 Avoid rel	ion sources. No smoking. y in original packaging. and bond container and receiving equipment. reathe mist or vapors. in thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. ease to the environment. otective gloves/ protective clothing/ eye protection.
		Response:	
		CENTER/ doct P301 + P330 + induce vomiting P303 + P361 + all contaminate P304 + P340 + and keep comi CENTER/ doct P305 + P351 + water for sever and easy to do CENTER/ doct P308 + P313 I attention. P362 + P364 T reuse. P370 + P378 I	 P331 IF SWALLOWED: Rinse mouth. Do NOT g. P353 IF ON SKIN (or hair): Take off immediate ed clothing. Rinse skin with water. P310 IF INHALED: Remove person to fresh air fortable for breathing. Immediately call a POISOI for. P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON for. F exposed or concerned: Get medical advice/ Take off contaminated clothing and wash it before in case of fire: Use water spray, alcohol-resistant nical or carbon dioxide to extinguish.
		Storage:	
		P410 Protec P411 Store a	Store in a well-ventilated place. Keep containe ocked up. t from sunlight. at temperatures not exceeding < 30 °C/ < 86 °F. separately.
		Disposal:	. ,
		•	of contents/ container to an approved waste dis

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Substance

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>= 1 - < 5 *

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Che	emical nature	:	Organio	c Peroxide	
Sub	Substance name			e hydroperox	ide
CA	CAS-No.)	
Cor	Common Name/Synonym			a available	
Со	mponents				
Che	emical name	Common		CAS-No.	Concentration (% w/w)

Common Name/Synonym Chemical name CAS-No. Cumene hydro-80-15-9 Cumene hydroperoxide >= 80 - < 85 * peroxide Cumene 98-82-8 Cumene >= 10 - < 15 * Benzenemethanol, 617-94-7 Benzenemethaalpha, alpha-dimethylnol, al->= 1 - < 5 * pha,alphadimethylacetophenone acetophenone 98-86-2

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. If unconscious, place in recovery position and seek medical advice. Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.
If inhaled :	Administer oxygen if breathing is difficult or cyanosis is observed. Call a physician immediately. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Contact a poison control center. Respiratory tract burning possible if aerosols are inhaled. Call a physician or poison control center immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear.

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In ca	In case of skin contact		If symptoms persist, call a physician. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. In case of contact, immediately flush skin with plenty of wate for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. If on skin, rinse well with water. If on clothes, remove clothes.		
In ca	In case of eye contact		Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with ple of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.		
lf swa	If swallowed		Keep respiratory	control center. oughly with water.	
and e	Most important symptoms and effects, both acute and delayed		 Harmful if swallowed or in contact with skin. May be fatal if swallowed and enters airways. Causes serious eye damage. Toxic if inhaled. May cause respiratory irritation. May cause cancer. May cause damage to organs through prolonged or repeat exposure. Causes severe burns. 		
Prote	ection of first-aiders	:		ers should pay attention to self-protection nmended protective clothing	
Notes	s to physician	:	Treat symptomati	cally and supportively.	

SECTION 5. FIRE-FIGHTING MEASURES

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



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•	Specific hazards during fire fighting		 Risk of explosion if heated under confinement. Possible emission of gaseous decomposition products lead to a dangerous pressure build-up. Avoid confinement. Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self- accelerating decomposition reaction with release of flar vapors which may auto-ignite. 			
			Do not allow run-c courses. Vapors may form The product will fl water.	s violently. le over considerable distance. off from fire fighting to enter drains or water explosive mixtures with air. oat on water and can be reignited on surface iners exposed to fire with water spray.		
Spec ods	ific 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.		
Furth	er 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.		
	ial protective equipment e-fighters	:	Wear self-containe necessary. Use personal prot	ed breathing apparatus for firefighting if ective equipment.		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Follow safe handling advice and personal protective equipment recommendations. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".
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Enviro	onmental precautions	:	Prevent further lea	rom entering drains. akage or spillage if safe to do so. taminates rivers and lakes or drains inform ties.
	Methods and materials for containment 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 n disposal of this ma employed in the c	diately. down) gases/vapors/mists with a water spray and all objects contaminated by this ty of water. 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.
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. Never return any product to the container from which it was originally removed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid confinement. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Smoking, eating and drinking should be prohibited in the application area.



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			Wash thoroughly For personal prote	after handling. ection see section 8.
Con	ditions for safe storage	:	Keep containers to Store in cool plac Contamination matches closed containers Prevent unauthori Observe label pres Store in accordan Avoid impurities (Electrical installat the technological	ightly closed in a cool, well-ventilated place. e. ay result in dangerous pressure increases - may rupture. zed access. 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
Mate	erials to avoid	:	Keep away from so ther reducing su	strong acids, bases, heavy metal salts and bstances.
Reco pera	ommended storage tem- ture	:	< 30 °C	
	her information on stor- stability	:	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
Cumene	98-82-8	TWA	50 ppm 246 mg/m3	CA AB OEL
		TWA	25 ppm	CA BC OEL
		STEL	75 ppm	CA BC OEL
		TWAEV	50 ppm	CA QC OEL
			246 mg/m3	
		TWA	5 ppm	ACGIH
acetophenone	98-86-2	TWA	10 ppm 49 mg/m3	CA AB OEL
		TWA	10 ppm	CA BC OEL
		TWAEV	10 ppm 49 mg/m3	CA QC OEL
		TWA	10 ppm	ACGIH

Engineering measures : Minimize workplace exposure concentrations.



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Perso	onal protective equi	oment		
	iratory protection	: In the	case of dust or a ed filter.	aerosol formation use respirator with an
Fi	lter type	: ABEK	-filter	
		Use N	IOSH approved	respiratory protection.
Ma Br Gl Ma Br	protection aterial reak through time ove thickness aterial reak through time ove thickness	: Nitrile : < 30 r : 0.40 r : butyl-ı : < 30 r : 0.70 r	nm ubber nin	
Re	emarks	standa materi protec chemi hazaro For s resista gloves	ard values! The e al has to be obta tive glove. Choos cals depending o lous substance a pecial application ance to chemicals	through time/strength of material are exact break through time/strength of ained from the producer of the se gloves to protect hands against on the concentration and quantity of the and specific to place of work. Is, we recommend clarifying the s of the aforementioned protective nanufacturer. Wash hands before of workday.
Eye p	Eye protection :		workstation local of follow all applic ing protective me s wear eye prote ontact with the pr fitting safety go	able local/national requirements when easures for a specific workplace. ction when the potential for inadvertent oduct cannot be excluded. ggles protective goggles. Also wear face
Skin :	and body protection	resista potent Additio task b dispos Wear	ance data and an ial. onal body garmer eing performed (able suits) to avo as appropriate:	ective clothing based on chemical a assessment of the local exposure ints should be used based upon the e.g., sleevelets, apron, gauntlets, bid exposed skin surfaces.
Prote	ctive measures	: The ty to the	pe of protective	equipment must be selected according amount of the dangerous substance



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	ene measures		Keep away from When using do n When using do n Wash hands befor the product.	ot eat or drink. ot smoke. ore breaks and immediately after handling
	9. PHYSICAL AND CH			S
Арре	arance	:	liquid	
Color		:	Colorless to pale	e yellow
Odor		:	aromatic	
Odor	Threshold	:	No data available	9
pН		:	5 - 6	
Melti	ng point/range	:	-9 °C	
Boilir	ng point/boiling range	:	53 °C (0.13 hPa)	
Flash	n point	:	ca. 63 °C	
			Method: closed	cup
Flam	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	Flammable liqui	b
Self-i	gnition	:	The substance of	or mixture is not classified as pyrophoric.
	r explosion limit / Upper nability limit	:	Upper explosion No data available	
	r explosion limit / Lower nability limit	:	Lower explosion No data available	
Vapo	r pressure	:	0.044 hPa (25 °	C)
Relat	ive vapor density	:	ca. 5.4 (20 °C)	
Relat	ive density	:	not determined	
Dens	ity	:	1.06 g/cm3 (20	°C)

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S	Solubilit Wat	ty(ies) er solubility	:	13.9 g/l slightly s	oluble (25 °C)
	Solu	bility in other solvents	:	No data available	
	Partitior	n coefficient: n- /water	:	No data available	
А	utoign	ition temperature	:	not determined	
		celerating decomposi- perature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
V	iscosi [,] Visc	ty osity, dynamic		ca. 12.5 mPa.s (20 °C)
		osity, kinematic	•	not determined	20 0)
E		ve properties	:		use, may form flammable/explosive vapor-air
С	Dxidizir	ng properties	:	The substance of Organic peroxide	r mixture is not classified as oxidizing.
S	Self-hea	ating substances	:	The substance of	mixture is not classified as self heating.

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



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Hazar produc	dous decomposition cts		t, caustic, flammable, noxious/toxic gases and vapour evelop in the case of fire and decomposition
ECTION	11. TOXICOLOGICAL	INFORMAT	ON
Harmf	e toxicity ul if swallowed or in c if inhaled.	ontact with sk	in.
<u>Produ</u>	<u>ict:</u>		
Acute	oral toxicity	: LD50 ((Rat): 382 mg/kg
Acute	inhalation toxicity	Expos Test a	1.370 mg/l ure time: 4 h tmosphere: dust/mist sment: The component/mixture is toxic after short terr ion.
Acute	dermal toxicity	Asses	1,200 - 1,520 mg/kg sment: The component/mixture is moderately toxic aft contact with skin.
<u>Comp</u>	oonents:		
Cume	ene hydroperoxide:		
Acute	oral toxicity	: LD50 (Oral (Rat): 382 mg/kg
Acute	inhalation toxicity	Expos Test a	1.370 mg/l ure time: 4 h tmosphere: dust/mist sment: The component/mixture is toxic after short terr ion.
Acute	dermal toxicity	Asses	1,200 - 1,520 mg/kg sment: The component/mixture is moderately toxic aft contact with skin.
Cume	ene:		
Acute	oral toxicity		(Rat): 2,260 mg/kg d: OECD Test Guideline 401
Acute	dermal toxicity	Asses toxicity	(Rabbit): > 3,160 mg/kg sment: The substance or mixture has no acute derma / ks: No mortality observed at this dose.
Bonz	nomothanol alpha	alaba_dimo4	
	enemethanol, alpha,	-	-

Acute oral toxicity	:	Acute toxicity estimate: 500 mg/kg
		Assessment: The component/mixture is moderately toxic after



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			igestion. s: Expert judgment			
Acute	inhalation toxicity	: Remarks	s: No data available			
Acute dermal toxicity		Assessr toxicity Remarks	LD50: Method: Expert judgment Assessment: The substance or mixture has no acute derma toxicity Remarks: Based on available data, the classification criteria are not met.			
aceto	phenone:					
Acute	oral toxicity	Method: Assessr single ir Remarks	exicity estimate: 500.0 mg/kg Expert judgment ment: The component/mixture is moderately toxic after agestion. s: Based on harmonised classification in EU regulation 08, Annex VI			
Acute	dermal toxicity		at): 3,300 mg/kg OECD Test Guideline 402			
Cause	corrosion/irritation es severe burns.					
Cause <u>Produ</u>	es severe burns. J <u>ct:</u>					
Cause	es severe burns. <u>uct:</u> es	: Rabbit : Causes	burns.			
Cause <u>Produ</u> Specie	es severe burns. <mark>uct:</mark> es t	: Causes	burns. Ily corrosive and destructive to tissue.			
Cause <u>Produ</u> Specie Resul ⁻ Rema	es severe burns. <mark>uct:</mark> es t	: Causes				
Cause Produ Specie Result Rema	es severe burns. <mark>uct:</mark> es t rks	: Causes				
Cause Produ Specie Result Rema Comp Cume Specie	es severe burns. <u>uct:</u> es t rks <u>ponents:</u> ene hydroperoxide: es	: Causes : Extreme : Rabbit	ely corrosive and destructive to tissue.			
Cause Produ Speci- Result Rema Comp	es severe burns. <u>uct:</u> es t rks <u>ponents:</u> ene hydroperoxide: es	: Causes : Extreme	ely corrosive and destructive to tissue.			
Cause Produ Specie Result Rema Comp Cume Specie	es severe burns. <u>uct:</u> es t rks <u>ponents:</u> ene hydroperoxide: es t	: Causes : Extreme : Rabbit : Causes	ely corrosive and destructive to tissue.			
Cause Produ Speci Result Rema Comp Speci Result	es severe burns. <u>uct:</u> es t rks <u>ponents:</u> ene hydroperoxide: es t rks	: Causes : Extreme : Rabbit : Causes	ely corrosive and destructive to tissue. burns.			
Cause Produ Specia Rema Comp Cume Specia Rema Cume Specia	es severe burns. <u>uct:</u> es t rks <u>conents:</u> ene hydroperoxide: es t rks ene: es	: Causes : Extreme : Rabbit : Causes : Extreme : Rabbit	ely corrosive and destructive to tissue. burns. ely corrosive and destructive to tissue.			
Cause Produ Specia Rema Comp Cume Specia Result Rema Cume	es severe burns. <u>uct:</u> es t rks <u>ponents:</u> ene hydroperoxide: es t rks ene: es od	: Causes : Extreme : Rabbit : Causes : Extreme : Rabbit	ely corrosive and destructive to tissue. burns. ely corrosive and destructive to tissue.			
Cause Produ Specia Rema Comp Cume Specia Rema Cume Specia Rema	es severe burns. <u>uct:</u> es t rks <u>ponents:</u> ene hydroperoxide: es t rks ene: es od	 : Causes : Extreme : Rabbit : Causes : Extreme : Extreme : Rabbit : OECD 1 : No skin 	ely corrosive and destructive to tissue. burns. ely corrosive and destructive to tissue. Fest Guideline 404 irritation			
Cause Produ Specia Rema Comp Cume Specia Rema Cume Specia Rema	es severe burns. <u>uct:</u> es t rks <u>ponents:</u> ene hydroperoxide: es t rks ene: es pod t enemethanol, alpha es	: Causes : Extreme : Rabbit : Causes : Extreme : Rabbit : OECD T : No skin ,alpha-dimethy : Rabbit	burns. by corrosive and destructive to tissue.			



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aceto	ophenone:		
Speci	-	: Rabbit	
Metho			Guideline 404
Resu		: No skin irrita	
Rema	arks	: May cause s	kin irritation in susceptible persons.
Seric	ous eye damage/eye	irritation	
Cause	es serious eye damag	le.	
Prod	uct:		
Speci		: Rabbit	
Resu	t	: Corrosive	
Rema	arks	: May cause in	reversible eye damage.
<u>Com</u>	oonents:		
Cume	ene hydroperoxide:		
Speci		: Rabbit	
Resu	t	: Corrosive	
Rema	arks	: May cause in	reversible eye damage.
Cume	ene:		
Speci	ies	: Rabbit	
Resu	lt	: No eye irritat	
Metho	bd	: OECD Test	Guideline 405
Benz	enemethanol, alpha	,alpha-dimethyl-:	
Resu	t	: Irritating to e	yes.
aceto	phenone:		
Speci	es	: Rabbit	
Resu	lt	: Eye irritation	
Metho		: No information	
Rema	arks	: Based on ha 1272/2008, A	rmonised classification in EU regulatior Annex VI
Rema	arks	: May cause in	reversible eye damage.
Resp	iratory or skin sensit	tization	
Skin	sensitization		
Not c	lassified based on ava	ilable information.	
Posn	iratory sonsitization		

Respiratory sensitization

Not classified based on available information.



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Dreads	. et.		
Produ		-	
Result	-		skin sensitization.
Rema	rks	: Based on availa	ble data, the classification criteria are not r
<u>Comp</u>	oonents:		
Cume	ene hydroperoxide:		
Result	t	: Does not cause	skin sensitization.
Cume	ene:		
Route	s of exposure	: Skin contact	
Specie		: Guinea pig	
Metho		: OECD Test Gui	
Result	t	: Does not cause	skin sensitization.
aceto	phenone:		
Test T		: Draize Test	
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result	t	: Does not cause	skin sensitization.
Germ	cell mutagenicity		
	cell mutagenicity assified based on av	ailable information.	
	assified based on av	ailable information.	
Not cla <u>Produ</u>	assified based on av	ailable information. : Test Type: in vi	tro test
Not cla <u>Produ</u>	assified based on av <u>Ict:</u>	: Test Type: in vi	tro test almonella typhimurium
Not cla <u>Produ</u>	assified based on av <u>Ict:</u>	: Test Type: in vi	
Not cla <u>Produ</u> Genote	assified based on av <u>Ict:</u>	: Test Type: in vir Test system: Sa Result: positive : Test Type: Micr	almonella typhimurium ronucleus test
Not cla <u>Produ</u> Genote	assified based on av <u>Ict:</u> oxicity in vitro	 Test Type: in vir Test system: Si Result: positive Test Type: Mich Species: Mouse 	almonella typhimurium ronucleus test e
Not cla <u>Produ</u> Genote	assified based on av <u>Ict:</u> oxicity in vitro	 Test Type: in vir Test system: Si Result: positive Test Type: Mich Species: Mouse 	almonella typhimurium ronucleus test e ite: Skin contact
Not cla <u>Produ</u> Genot	assified based on av <u>ict:</u> oxicity in vitro oxicity in vivo	 Test Type: in vir Test system: Si Result: positive Test Type: Micr Species: Mouse Application Rou 	almonella typhimurium ronucleus test e ite: Skin contact
Not cla <u>Produ</u> Genot Genot	assified based on av <u>uct:</u> oxicity in vitro oxicity in vivo	 Test Type: in vir Test system: Si Result: positive Test Type: Mich Species: Mouse Application Rou Result: negative 	almonella typhimurium ronucleus test e ite: Skin contact
Not cla Produ Genote Genote Comp Cume	assified based on av <u>uct:</u> oxicity in vitro oxicity in vivo <u>ponents:</u> ene hydroperoxide:	 Test Type: in vir Test system: Sa Result: positive Test Type: Micr Species: Mouse Application Rou Result: negative 	almonella typhimurium ronucleus test e ite: Skin contact
Not cla Produ Genote Genote Comp Cume	assified based on av <u>uct:</u> oxicity in vitro oxicity in vivo	 Test Type: in vir Test system: Si Result: positive Test Type: Mici Species: Mouse Application Rou Result: negative Test Type: in vir 	almonella typhimurium ronucleus test e ite: Skin contact
Not cla <u>Produ</u> Genot Genot Comp Genot	assified based on av <u>uct:</u> oxicity in vitro oxicity in vivo <u>ponents:</u> ene hydroperoxide:	 Test Type: in vir Test system: Si Result: positive Test Type: Micri Species: Mouse Application Rou Result: negative Test Type: in vir Test system: Si 	almonella typhimurium ronucleus test e ite: Skin contact e
Not cla <u>Produ</u> Genot Genot Comp Genot	assified based on av <u>uct:</u> oxicity in vitro oxicity in vivo <u>ponents:</u> ene hydroperoxide: oxicity in vitro	 Test Type: in vir Test system: Si Result: positive Test Type: Mich Species: Mouse Application Rou Result: negative Test Type: in vir Test system: Si Result: positive Test Type: Mich Species: Mouse 	almonella typhimurium ronucleus test e tro test almonella typhimurium ronucleus test
Not cla <u>Produ</u> Genot Genot Comp Genot	assified based on av <u>uct:</u> oxicity in vitro oxicity in vivo <u>ponents:</u> ene hydroperoxide: oxicity in vitro	 Test Type: in vir Test system: Si Result: positive Test Type: Mich Species: Mouse Application Rou Result: negative Test Type: in vir Test system: Si Result: positive Test Type: Mich Species: Mouse Application Rou 	almonella typhimurium ronucleus test e tro test almonella typhimurium ronucleus test e tte: Skin contact
Not cla <u>Produ</u> Genot Genot Comp Genot	assified based on av <u>uct:</u> oxicity in vitro oxicity in vivo <u>ponents:</u> ene hydroperoxide: oxicity in vitro	 Test Type: in vir Test system: Si Result: positive Test Type: Mich Species: Mouse Application Rou Result: negative Test Type: in vir Test system: Si Result: positive Test Type: Mich Species: Mouse 	almonella typhimurium ronucleus test e tro test almonella typhimurium ronucleus test e tte: Skin contact
Not cla Produ Genot Genot Comp Cume Genot Genot	assified based on av <u>uct:</u> oxicity in vitro oxicity in vivo <u>ponents:</u> ene hydroperoxide: oxicity in vitro oxicity in vivo	 Test Type: in vir Test system: Sir Result: positive Test Type: Micr Species: Mouse Application Rou Result: negative Test Type: in vir Test system: Sir Result: positive Test Type: Micr Species: Mouse Application Rou Result: negative 	almonella typhimurium ronucleus test e tro test almonella typhimurium ronucleus test e tte: Skin contact



ersion 0	Revision Date: 08/07/2023	SDS Number: 600000000292	Date of last issue: 06/30/2021 Date of first issue: 12/19/2016
		Result: neg	ative
		Method: Ol Result: neg	ECD Test Guideline 471 pative
		Method: Ol Result: neg	ECD Test Guideline 476 pative
		Method: Ol Result: neg	ECD Test Guideline 482 pative
		Test Type: Result: pos	
Geno	toxicity in vivo	Exposure t	Route: Intraperitoneal ime: 72 h ECD Test Guideline 474
		Exposure t	Route: inhalation (gas) ime: 14 w ECD Test Guideline 474
aceto	ophenone:		
Geno	toxicity in vitro	: Method: Ol Result: neg	ECD Test Guideline 473 pative
		Method: Ol Result: neg	ECD Test Guideline 476 jative
		Method: Ol Result: neg	ECD Test Guideline 471 ative
Geno	toxicity in vivo		Route: Intraperitoneal ECD Test Guideline 474
	inogenicity cause cancer.		
Prod			
Rema		: This inform	ation is not available.
<u>Com</u>	ponents:		
Cum	ene hydroperoxide:		



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Rema	arks	:	This information	n is not available.	
Spec Appli	Cumene: Species Application Route Result		 Rat, male and female inhalation (vapor) carcinogenic effects 		
Spec Appli Resu	cation Route	: Mouse, male and female : inhalation (vapor) : carcinogenic effects		or)	
Carci ment	Carcinogenicity - Assess- ment		Sufficient evide	nce of carcinogenicity in animal experiments	
Not c	oductive toxicity lassified based on availa ponents:	able	information.		
	-				
	ene hydroperoxide: ts on fertility	:	Remarks: No d	lata available	
Effect	ts on fetal development	:	Remarks: No c	ata available	
Cum	ene:				
Effect	ts on fetal development	:	General Toxicit Developmental	t ute: inhalation (vapor) y Maternal: LOAEL: 500 Toxicity: NOAEL: 2,300 Test Guideline 414	
aceto	ophenone:				
	ts on fertility	:	General Toxicit	y Parent: NOAEL: 225 mg/kg body weight y F1: NOAEL: 225 mg/kg body weight Test Guideline 422	
			General Toxicit	ute: Ingestion y Parent: LOAEL: 750 mg/kg body weight y F1: LOAEL: 750 mg/kg body weight r Test Guideline 422	
Effect	ts on fetal development	:			



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		Method: OE	CD Test Guideline 414					
	-single exposure ause respiratory irrita	tion						
Produ								
	ssment	: May cause r	: May cause respiratory irritation.					
<u>Comp</u>	oonents:							
Cume	ene:							
Asses	ssment	: May cause r	espiratory irritation.					
	-repeated exposure							
		ins through prolonge	d or repeated exposure.					
<u>Produ</u>								
Asses	ssment	: May cause c exposure.	lamage to organs through prolonged or repeated					
<u>Comp</u>	oonents:							
Cume	ene hydroperoxide:							
Asses	ssment	: May cause d exposure.	lamage to organs through prolonged or repeated					
Repe	ated dose toxicity							
Produ	<u>uct:</u>							
Speci		: Rat						
NOAE	C ation Route	: 31 mg/m ³ : inhalation (g	22)					
	sure time	: 90 d	asj					
Metho		: OECD Test	Guideline 413					
<u>Comp</u>	oonents:							
Cume	ene hydroperoxide:							
Speci		: Rat						
NOAE	EC ation Route	: 31 mg/m ³ : inhalation (g	(ac					
	sure time	: 90 d	asj					
Cume	ene:							
Speci		: Rat						
NOAE Applic	EL ation Route	: 154 mg/kg : Oral						
Metho			Guideline 413					
		18 /	/ 00					



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acetophenone:

Species	: Rat
NOAEL	: 225 mg/kg
LOAEL	: 750 mg/kg
Application Route	: Ingestion
Method	: OECD Test Guideline 422

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

May be fatal if swallowed and enters airways.

Components:

Cumene:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks

: Solvents may degrease the skin.

Components:

acetophenone:

Remarks

: No data available

SECTION 12. ECOLOGICAL INFORMATION

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 3.9 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 18.8 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202
Toxicity to algae/aquatic blants	:	EC50 (Desmodesmus subspicatus (green algae)): 3.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



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			NOEC (Desmodes Exposure time: 72 Method: OECD Te		
Тох	Toxicity to microorganisms		NOEC (Pseudomonas putida): 50 mg/l End point: Growth rate Exposure time: 16 h		
	toxicology Assessment				
Acu	te aquatic toxicity	:	Toxic to aquatic lif	e.	
Chro	onic aquatic toxicity	:	Toxic to aquatic lif	e with long lasting effects.	
<u>Cor</u>	nponents:				
	nene hydroperoxide:				
Тох	icity to fish	:	LC50 (Oncorhynch Exposure time: 96 Test Type: semi-s Method: OECD Te	tatic test	
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Test Type: Immob Method: OECD Te	ilization	
Tox plar	icity to algae/aquatic hts	:	EC50 (Desmodes) Exposure time: 72 Method: OECD Te		
			NOEC (Desmodes Exposure time: 72 Method: OECD Te		
Тох	icity to microorganisms	:	NOEC (Pseudomo End point: Growth Exposure time: 16		
Cur	nene:				
Тох	icity to fish	:	LC50 (Oncorhyncl Exposure time: 96	hus mykiss (rainbow trout)): 4.8 mg/l 3 h	
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Tox plar	icity to algae/aquatic nts	:	EC50 (Desmodes) Exposure time: 72 Method: OECD Te		



Vers 3.0	sion	Revision Date: 08/07/2023		9S Number: 0000000292	Date of last issue: 06/30/2021 Date of first issue: 12/19/2016
		to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: > 2,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
		icology Assessment aquatic toxicity	:	Toxic to aquatic lif	e with long lasting effects.
	Benzei	nemethanol, alpha,al	pha	-dimethyl-:	
		icology Assessment aquatic toxicity	:	This product has r	no known ecotoxicological effects.
	Chronic	aquatic toxicity	:	This product has r	o known ecotoxicological effects.
	acetop Toxicity	henone: ^v to fish	:	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
	-	v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 528 mg/l h
	Toxicity plants	v to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokire mg/I Exposure time: 72 Method: OECD Te	
	Persist	ence and degradabil	ity		
	<u>Produc</u> Biodegr	<u>:t:</u> adability	:	Result: Not readily Method: OECD Te	biodegradable. st Guideline 301B
	Compo	onents:			
		e hydroperoxide: radability	:	Result: Not readily Method: OECD Te	biodegradable. st Guideline 301B



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Cume	ane.				
	gradability	:	Result: Readi	y biodegradable.	
Benz	enemethanol, alpha,a	alpha	-dimethyl-:		
Biodegradability		:	: Remarks: No data available		
aceto	phenone:				
Biodegradability		:		y biodegradable. D Test Guideline 301C	
Bioad	ccumulative potential				
<u>Com</u>	oonents:				
Cume	ene hydroperoxide:				
	ion coefficient: n- ol/water	:	log Pow: 1.6		
Cume	ene:				
Bioac	cumulation	:	Bioconcentrat Remarks: Cal	ion factor (BCF): 94.69 culation	
	ion coefficient: n- ol/water	:	: log Pow: 3.55 (23 °C)		
Benz	enemethanol, alpha,a	alpha	-dimethyl-:		
	ion coefficient: n- ol/water	:	Remarks: No	data available	
aceto	phenone:				
Bioac	cumulation	:	Bioconcentrat	ion factor (BCF): 0.48	
	ion coefficient: n- ol/water	:	log Pow: 1.63		
Mobi	lity in soil				
No da	ata available				
Other	adverse effects				
Produ	uct:				
Additi matio	onal ecological infor- n	:	unprofessiona	ntal hazard cannot be excluded in the event I handling or disposal. tic life with long lasting effects.	

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Dispose of wastes in an approved waste disposal facility. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with 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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3109
Proper shipping name	:	ORGANIC PEROXIDE TYPE F, LIQUID (CUMYL HYDROPEROXIDE)
Class	:	5.2
Subsidiary risk	:	8
Packing group	:	Not assigned by regulation
Labels	:	5.2 (8)
IATA-DGR		
UN/ID No.	:	UN 3109
Proper shipping name	:	Organic peroxide type F, liquid (Cumyl hydroperoxide)
Class	:	5.2
Subsidiary risk	:	8
Packing group	:	Not assigned by regulation
Labels	:	Organic Peroxides, Keep Away From Heat, Corrosive
Packing instruction (cargo aircraft)	:	570
Packing instruction (passen- ger aircraft)	:	570
IMDG-Code		
UN number	•	UN 3109
Proper shipping name	:	ORGANIC PEROXIDE TYPE F, LIQUID (CUMYL HYDROPEROXIDE)
Class	:	5.2
Subsidiary risk		8
Packing group	:	Not assigned by regulation
	-	

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Labels	:	5.2 (8)
EmS Code	:	F-J, S-R
Marine pollutant	:	yes

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

Domestic regulation

TDG		
UN number	: UN 310	09
Proper shipping name		NIC PEROXIDE TYPE F, LIQUID YL HYDROPEROXIDE)
Class	: 5.2	
Subsidiary risk	: 8	
Packing group	: 11	
Labels	: 5.2 (8)	
ERG Code	: 145	
Marine pollutant	: yes	

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	: Cumene hydroperoxide
	Cumene
	acetophenone

International Regulations

Gefahrgruppe nach DGUV 13 Vorschrift 13 (bisher BGV B4): lb (German regulatory requirements)

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)	:	On the inventory,	or	r in compliance with the inventory
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DSL (CA)	:	All components of this product are on the Canadian DSL
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- 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

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NZIoC	- (NZ)	: On the inventor	y, or in compliance with the inventory
TECI	(TH)	: On the inventor	y, or in compliance with the inventory
Cana	dian lists		

No substances are subject to a Significant New Activity Notification.

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		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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Date format	:	mm/dd/yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	short-term exposure limit
CA QC OEL / TWAEV	:	Time-weighted average exposure value

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 System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and



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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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