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Versio 4.1	n Revision Date: 10/27/2021		9S Number: 0000000796	Date of last issue: Date of first issue:	
SECTI	ON 1. IDENTIFICATION				
Trade name		:	NOROX [®] 802-75-A	L3	
М	anufacturer or supplier's o	deta	ils		
С	ompany name of supplier	:	United Initiators, Ir	nc.	
Address		:	555 Garden Stree Elyria OH 44035 U		
Те	elephone	:	+1-440-323-3112		
Te	elefax	:	+1-440-323-2659		
Emergency telephone		:	CHEMTREC US (CHEMTREC WOR		+1-800-424-9300 +1-703-527-3887
	E-mail address of person responsible for the SDS		cs-initiators.nafta@	Dunited-in.com	
R	ecommended use of the c	hem	nical and restrictio	ns on use	

Recommended use	of the cl	hemica	and restr	ictions of	on use
Recommended use		: pol	ymerizatio	n initiator	s

Recommended use :		polymerization	initiators
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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) Flammable liquida . .

Flammable liquids	:	Category 4
Organic peroxides	:	Type C
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 1B
Aspiration hazard	:	Category 1
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 2

GHS label elements



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Hazar	d pictograms		
Signal	l Word	: Danger	
Hazar	d Statements	H304 May be fa H317 May caus H360F May da H400 Very toxi	nay cause a fire. atal if swallowed and enters airways. se an allergic skin reaction.
Preca	utionary Statements	P202 Do not ha and understood P210 Keep awa No smoking. P220 Keep/Sto heavy metal sa materials. P234 Keep onl P261 Avoid bre P272 Contamin the workplace. P273 Avoid rele	ay from heat/ sparks/ open flames/ hot surfaces. The away from clothing/ strong acids, bases, alts and other reducing substances /combustible by in original container. Seathing mist or vapors. The allowed out of the environment. tective gloves/ protective clothing/ eye protection/
		CENTER/ doct P302 + P352 IF P308 + P313 IF attention. P331 Do NOT P333 + P313 If attention. P363 Wash co P370 + P378 Ir foam, dry chem P391 Collect sp Storage: P405 Store Ic P410 Protect P411 + P235 68 °F. Keep co	 ON SKIN: Wash with plenty of soap and water. exposed or concerned: Get medical advice/ induce vomiting. skin irritation or rash occurs: Get medical advice/ ntaminated clothing before reuse. n case of fire: Use water spray, alcohol-resistant nical or carbon dioxide to extinguish. pollage.

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Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Components

Chemical name	CAS-No.	Concentration (% w/w)				
tert-Butyl 2-ethylperoxyhexanoate	3006-82-4	>= 50 - < 55				
di-tert-butyl 3,3,5-	6731-36-8	>= 25 - < 30				
trimethylcyclohexylidene diperoxide						
Naphta (Petroleum), hydrotreated	64742-48-9	>= 25 - < 30				
heavy (Hydrocarbons, C11-C12,						
isoalkanes, <2% aromatics)						
Actual concentration is withheld as a trade secret						

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General 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. Call a physician immediately.
lf inhaled	:	Call a physician or poison control center immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathed in, move person into fresh air.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. If on skin, rinse well with water. If on clothes, remove clothes. If symptoms persist, call a physician.

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In case of eye contact		:	In the case of contact with eyes, rinse immediately with plen of water and seek medical advice. 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 tract clear. Do NOT induce vomiting. Call a physician immediately. Contact a poison control center. Rinse mouth thoroughly with water.			
and e	Most important symptoms and effects, both acute and delayed		May be fatal if swallowed and enters airways. May cause an allergic skin reaction. May damage fertility.			
Prote	Protection of first-aiders		First Aid responders should pay attention to self-protection and use the recommended protective clothing			
Notes to physician		:	Treat symptomatically 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
Specific hazards during fire fighting	:	Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self- accelerating decomposition reaction with release of flammable vapors which may auto-ignite.
		Flash back possible over considerable distance. Vapors may form explosive mixtures with air. The product will float on water and can be reignited on surface water. Cool closed containers exposed to fire with water spray.
Specific extinguishing meth- ods	:	Do not use a solid water stream as it may scatter and spread fire. Remove undamaged containers from fire area if it is safe to do so. Use water spray to cool unopened containers.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must

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			Use extinguishing	accordance with local regulations. g measures that are appropriate to local nd the surrounding environment.
	al protective equipment e-fighters	:	necessary.	ned breathing apparatus for firefighting if tective equipment.
SECTION	6. ACCIDENTAL RELEA	ASE	MEASURES	
tive ea	nal precautions, protec- quipment and emer- procedures	:	Ensure adequate Remove all source Follow safe hand equipment recom Beware of vapors concentrations. V Never return spill	ces of ignition. ling advice and personal protective
Enviro	nmental precautions	:	Prevent further le	from entering drains. eakage or spillage if safe to do so. ntaminates rivers and lakes or drains inform ities.
	ods and materials for nment and cleaning up	:	decomposition at Clear spills imme Suppress (knock jet. To clean the floor material, use pler Soak up with iner Isolate waste and Non-sparking too Local or national disposal of this m employed in the	ediately. down) gases/vapors/mists with a water spray r and all objects contaminated by this nty of water. rt absorbent material.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from combustible material.

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Advic	e on safe handling		Avoid contact wit Avoid formation of Take precautiona Never return any priginally removed Provide sufficient Avoid confinemer Keep away from other ignition sou Smoking, eating a application area. Wash thoroughly For personal prot Persons susceptia allergies, chronic	obtain special instructions before use. h skin and eyes. f aerosol. ry measures against static discharges. product to the container from which it was air exchange and/or exhaust in work rooms. air exchange and/or exhaust in work rooms. t. heat, hot surfaces, sparks, open flames and rces. No smoking. and drinking should be prohibited in the after handling. ection see section 8. ble to skin sensitization problems or asthma, or recurrent respiratory disease should not ny process in which this mixture is being
Cond	itions for safe storage		Electrical installat the technological Containers which kept upright to pr Store in original of Keep containers	
Mate	rials to avoid		Keep away from other reducing su	strong acids, bases, heavy metal salts and bstances.
Reco perat	mmended storage tem- ure	: •	< 20 °C	
			< 68 °F	
	er information on stor- stability	:	No decomposition	n 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
Naphta (Petroleum),	64742-48-9	TWA (Vapor)	171 ppm	Supplier data
hydrotreated heavy			1,200 mg/m3	
(Hydrocarbons, C11-C12,			(total hydrocar-	

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isoalł	anes, <2% aromatics)				bons)			
				TWA	400 ppm 1,600 mg/m3	OSHA P0		
Engi	neering measures	:	Minimize workp	place exposure	concentrations.			
Perse	onal protective equipm	nent						
Resp	iratory protection	:	In the case of approved filter.		formation use respira	ator with an		
Fi	lter type	:	ABEK-filter					
M Bi	protection aterial reak through time love thickness	:	butyl-rubber 60 min 0.5 mm					
Bi	aterial reak through time love thickness	::	Nitrile rubber 480 min 0.4 mm					
Re	emarks	:	on the concent substance and For special ap resistance to c gloves with the	ration and quar specific to plac plications, we re hemicals of the	ecommend clarifying aforementioned prot turer. Wash hands b	the		
Eye ç	protection	:	Tightly fitting safety goggles Please wear suitable protective goggles. Also wear face protection if there is a splash hazard. Ensure that eyewash stations and safety showers are close to the workstation location.					
Skin	and body protection	:	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.					
Hygie	ene measures	:	When using do When using do	Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

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	Color		:	colorless	
	Odor		:	slight, musty	
	Odor TI	nreshold	:	No data available	
	Melting	point/range	:	No data available	
	Boiling	point/boiling range	:	No data available	Decomposition
	Flash p	oint	:	62 °C	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Density	,	:	0.87 g/cm3 (25 °	C)
	Solubili Wat	ty(ies) er solubility	:	negligible	
		celerating decomposi- nperature (SADT)	:	temperature at w	H.4 erating Decomposition Temperature. Lowest hich the tested package size will undergo a decomposition reaction.
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	No oxidising effect	ct. Organic peroxide

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reac- tions	:	Vapors may form explosive mixture with air.
Conditions to avoid	:	Protect from contamination. Contact with incompatible substances can cause

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			decomposition a Heat, flames and Avoid confineme	•
Ind	compatible materials	:		ong acids and bases, heavy metals and s, reducing agents
	azardous decomposition oducts	:		lammable, noxious/toxic gases and vapours ne case of fire and decomposition

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

tert-Butyl 2-ethylperoxyhexanoate: Acute oral toxicity LD50 (Rat): >= 10,000 mg/kg : Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity Remarks: No mortality observed at this dose. Acute inhalation toxicity LC50 (Rat): > 42.2 mg/l : Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity LD50 (Rabbit): 16,820 mg/kg : Method: OECD Test Guideline 402 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide: Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity :	LC50 (Rat): > 5.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 Assessment: The substance or mixture has no acute inhala- tion toxicity
-----------------------------	---

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

Naphta (Petroleum), hydrotreated heavy (Hydrocarbons, C11-C12, isoalkanes, <2% aromatics):



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Acute	oral toxicity	:	LD50 (Rat): > Method: OECE	5,000 mg/kg) Test Guideline 401			
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosphe Method: OECE	: 8 h			
Acute	dermal toxicity	:	LD50 (Rabbit): Method: OECE	> 5,000 mg/kg) Test Guideline 402			
Skin	corrosion/irritation						
Not cl	assified based on ava	ilable	information.				
<u>Produ</u>	<u>ict:</u>						
Rema	rks	:	May cause ski	n irritation and/or dermatitis.			
<u>Comp</u>	oonents:						
tert-B	utyl 2-ethylperoxyh	exand	ate:				
Speci	es	:	Rabbit				
Metho Resul		:	: OECD Test Guideline 404 : No skin irritation				
Speci Metho Result	d	:	Rabbit OECD Test Gu No skin irritatic	uideline 404			
Resul	l	•	NO SKINIMIALIO	T1			
Naph [:] ics):	ta (Petroleum), hydr	otreat	ed heavy (Hydr	ocarbons, C11-C12, isoalkanes, <2% aror			
Metho	d	:	OECD Test Gu	uideline 404			
Resul	t	:	Mild skin irritat	ion			
Rema	rks	:	May cause ski	n irritation and/or dermatitis.			
Serio	us eye damage/eye	irritat	ion				
Not cl	assified based on ava	ailable	information.				
<u>Produ</u>	<u>ict:</u>						
Rema	rks	:	: Vapors may cause irritation to the eyes, respiratory system and the skin.				
<u>Comp</u>	oonents:						
tert-B	utyl 2-ethylperoxyh	exand	ate:				
Speci	es	:	Rabbit				
Resul	t	:	No eye irritatio				
Metho	d	:	OECD Test Gu	lideline 405			



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di-ter	t-butyl 3,3,5-trimeth	ylcyclo	hexylidene di	peroxide:			
Speci		:	Rabbit				
Resul		:	No eye irritatio	n			
Metho	od	:	OECD Test Gu	ideline 405			
Naph ics):	ta (Petroleum), hydi	otreate	d heavy (Hydr	ocarbons, C11-C12, isoalkanes, <2% aro			
Rema	rks	:	No data availat	le			
Rema	rks	:	Vapors may ca and the skin.	ause irritation to the eyes, respiratory system			
Respi	ratory or skin sensi	tizatior	1				
Skin	sensitization						
May c	ause an allergic skin	reactio	า.				
-	ratory sensitization						
Not cl	assified based on av	ailable i	nformation.				
<u>Produ</u>	uct:						
Rema	rks	:	Causes sensiti	zation.			
<u>Comp</u>	oonents:						
tert-B	utyl 2-ethylperoxyh	exanoa	ate:				
Speci		:	Guinea pig				
Metho		:		CD Test Guideline 406			
Resul	t	:	May cause ser	sitization by skin contact.			
	t-butyl 3,3,5-trimeth	ylcyclo	-	peroxide:			
Speci		:	Guinea pig OECD Test Gu	ideline 400			
Metho Resul		•		e skin sensitization.			
Resul	L .	•	Dees not eaus				
Naph ics):	ta (Petroleum), hydi	otreate	d heavy (Hydr	ocarbons, C11-C12, isoalkanes, <2% aro			
Resul	t	:	Does not caus	e skin sensitization.			
Germ	cell mutagenicity						
Not cl	assified based on av	ailable i	nformation.				
<u>Comp</u>	oonents:						
	utyl 2-ethylperoxyh	exanoa					
Genot	toxicity in vitro	:		cterial reverse mutation assay (AMES) D Test Guideline 471 e			



rsion	Revision Date: 10/27/2021	SDS Numbe 6000000007	
			be: In vitro mammalian cell gene mutation test OECD Test Guideline 476 positive
Genot	oxicity in vivo		ion Route: Ingestion OECD Test Guideline 474
di-ter	t-butyl 3,3,5-trimethy	lcvclohexvlide	ene diperoxide:
	oxicity in vitro	: Test Typ	be: Chromosome aberration test in vitro OECD Test Guideline 473
			be: Bacterial reverse mutation assay (AMES) OECD Test Guideline 471 negative
			pe: In vitro mammalian cell gene mutation test OECD Test Guideline 476 negative
Genot	oxicity in vivo	: Remarks	s: No data available
	ta (Petroleum), hydr	otreated heavy	، (Hydrocarbons, C11-C12, isoalkanes, <2% aron
	cell mutagenicity -	: Animal t	esting did not show any mutagenic effects.
	nogenicity assified based on ava	ilable informatio	on.
	oonents:		
tert-B	utyl 2-ethylperoxyh	exanoate:	
Rema			rmation is not available.
di-ter	t-butyl 3,3,5-trimethy	lcyclohexylide	ene diperoxide:
Speci	-	: Mouse	·
Applic Resul	ation Route t	: Oral : negative	
		-	r (Hydrocarbons, C11-C12, isoalkanes, <2% arom
•	nogenicity - Assess-	: Animal t	esting did not show any carcinogenic effects.
IARC			ct present at levels greater than or equal to 0.1% is sible or confirmed human carcinogen by IARC.



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OSHA	No componer on OSHA's li			t at levels greater than or equal to 0.1% is ens.			
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.					
-	oductive toxicity lamage fertility.						
<u>Comp</u>	oonents:						
tert-B	utyl 2-ethylperoxyhex	anoate:					
	s on fertility	test Specie Applica Genera Method Test Ty Specie Applica Genera Genera Fertility Early E weight Method GLP: y	s: Rat ation Route: al Toxicity F d: OECD Te ype: One-ge s: Rat ation Route: al Toxicity F al Toxicity F y: NOAEL M Embryonic E d: OECD Te res	Parent: NOEL: 300 mg/kg body weight st Guideline 421 eneration reproduction toxicity study			
Effect	s on fetal development	Applica Genera Develo Method Specie Applica Genera Develo	pmental To d: OECD Te s: Rat ation Route: al Toxicity M pmental To	faternal: NOAEL: 30 mg/kg body weight xicity: NOAEL: 100 mg/kg body weight st Guideline 414			
Repro sessn	ductive toxicity - As- nent			adverse effects on sexual function and animal experiments.			
di-ter	t-butyl 3,3,5-trimethylo	vclohexvlir	dene diner	oxide:			
	s on fertility		ks: No data				
Effect	s on fetal development		ation Route:	oral (gavage) laternal: NOAEL: 1,000 mg/kg body weight			

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		Method: OECD) Test Guideline 414
STOT	-single exposure		
Not cl	assified based on av	ailable information.	
<u>Comp</u>	oonents:		
tert-B	utyl 2-ethylperoxyh	exanoate:	
Rema		: No data availat	ble
STOT	-repeated exposure		
Not cl	assified based on av	ailable information.	
<u>Com</u>	oonents:		
tert-B	utyl 2-ethylperoxyh	exanoate:	
Rema		: No data availat	ble
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
tert-B	utyl 2-ethylperoxyh	exanoate:	
Speci		: Rat, male	
NOAE		: 316 mg/kg	
Expos Metho	sure time	: 28 d : OECD Test Gu	ideline 407
weind	Ju	. OECD Test G	
Speci		: Rat, female	
NOAE		: 100 mg/kg	
	sure time	: 28 d	ideline 107
Metho	Da	: OECD Test Gu	lideline 407
Speci		: Rat	
NOAE		: 450 mg/kg	
Metho	od	: OECD Test Gu	uideline 408
Aspir	ation toxicity		
-	e fatal if swallowed a	and enters airways.	
Comr	oonents:	-	
<u></u>			

ics):

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks

: Solvents may degrease the skin.



				ariving your success			
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	<u>ponents:</u> nta (Petroleum), hydro	otreat	ed heavy (Hydr	ocarbons, C11-C12, isoalkanes, <2% aromat-			
•	Remarks		: Solvents may degrease the skin.				
SECTION	12. ECOLOGICAL IN	FORM	IATION				
Ecote	oxicity						
<u>Com</u>	ponents:						
	Butyl 2-ethylperoxyhe ity to fish	xano :	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 8.66 mg/l 96 h 9 Test Guideline 203			
			Exposure time:	a reticulata (guppy)): 2.10 mg/l 96 h 9 Test Guideline 203			
	ity to daphnia and othe tic invertebrates	er :	Exposure time:	magna (Water flea)): 7.5 mg/l 48 h 9 Test Guideline 202			
Toxic plants	ity to algae/aquatic s	:	mg/I Exposure time:	kirchneriella subcapitata (green algae)): 0.44 72 h 9 Test Guideline 201			
			mg/I Exposure time:	okirchneriella subcapitata (green algae)): 0.018 72 h 9 Test Guideline 201			
M-Fa icity)	ctor (Acute aquatic tox	- :	1				
aquat	ity to daphnia and othe tic invertebrates (Chror icity)		Exposure time:	a magna (Water flea)): 0.45 mg/l 21 d 9 Test Guideline 211			
			Exposure time:	a magna (Water flea)): 0.87 mg/l 21 d 9 Test Guideline 211			
Toxic	ity to microorganisms	:	EC50: 64 mg/l Exposure time: Method: OECD	0.5 h Test Guideline 209			
			Exposure time:				



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Ecoto	oxicology Assessment					
	aquatic toxicity	:	Very toxic to aqua	atic life.		
Chron	ic aquatic toxicity	:	Toxic to aquatic I	Toxic to aquatic life with long lasting effects.		
di-ter	t-butyl 3,3,5-trimethylc	vclo	ohexvlidene dipe	roxide:		
Toxicity to fish		:	LC50 (Brachydan Exposure time: 9 Method: OECD T	io rerio (zebrafish)): > 0.043 mg/l		
	ity to daphnia and other ic invertebrates	:	Exposure time: 4 Method: OECD T	nagna (Water flea)): >1 mg/l 8 h est Guideline 202 icity at the limit of solubility.		
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 7 Method: OECD T	chneriella subcapitata (green algae)): 0.11 2 h est Guideline 201 icity at the limit of solubility.		
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2 Method: OECD T	magna (Water flea)): 0.0128 mg/l 1 d est Guideline 211 icity at the limit of solubility.		
Toxici	Toxicity to microorganisms		EC50 (Bacteria): Exposure time: 3 Method: OECD T			
Ecoto	oxicology Assessment					
Chron	ic aquatic toxicity	:	May cause long l	asting harmful effects to aquatic life.		
Naph ics):	ta (Petroleum), hydrotr	eat	ed heavy (Hydroc	arbons, C11-C12, isoalkanes, <2% aroma		
	ity to fish	:	LC0 (Oncorhynch Exposure time: 9	us mykiss (rainbow trout)): 1,000 mg/l 6 h		
	ity to daphnia and other ic invertebrates	:	EC0 (Daphnia ma Exposure time: 4	agna (Water flea)): 1,000 mg/l 8 h		
Toxici plants	ity to algae/aquatic	:	EC0 (Pseudokircl mg/l Exposure time: 7	hneriella subcapitata (green algae)): 1,000 2 h		
			NOELR (Pseudol 1,000 mg/l Exposure time: 7	kirchneriella subcapitata (green algae)): 2 h		



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	ic invertebrates (Chron-	:	NOELR (Daphn Exposure time:	ia magna (Water flea)): >= 1 mg/l 21 d	
Ecotoxicology Assessment Chronic aquatic toxicity		:	This product has no known ecotoxicological effects. Remarks: Information given is based on data on the ingredi- ents and the ecotoxicology of similar products.		
Persi	stence and degradabil	ity			
<u>Comp</u>	oonents:				
	utyl 2-ethylperoxyhex gradability		Result: Biodegra	adable Test Guideline 301D	
	t-butyl 3,3,5-trimethylc gradability	yclo :	Result: Biodegra		
Naph ics):	ta (Petroleum), hydrotr	eat	ed heavy (Hydro	ocarbons, C11-C12, isoalkanes, <2% aron	
Biodegradability		:	Result: rapidly b	biodegradable	
Bioad	cumulative potential				
<u>Comp</u>	oonents:				
tert-B	utyl 2-ethylperoxyhex	anc	ate:		
	on coefficient: n- ol/water	:	log Pow: 4.79 (20 °C / 20 °C)	
di-ter	t-butyl 3,3,5-trimethylc	ycle	ohexylidene dip	eroxide:	
Bioac	cumulation	:	Bioconcentratio	n factor (BCF): 443	
	on coefficient: n- ol/water	:	log Pow: 6.53		
Naph ics):	ta (Petroleum), hydrotr	eat	ed heavy (Hydro	ocarbons, C11-C12, isoalkanes, <2% aron	
	on coefficient: n- ol/water	:	Remarks: No da	ata available	
Mobil	itv in soli				

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Other	adverse effects		
<u>Produ</u>	<u>ıct:</u>		
Ozone	e-Depletion Potential	tection of St Substances Remarks: Tr tured with a	40 CFR Protection of Environment; Part 82 Pro- ratospheric Ozone - CAA Section 602 Class I nis product neither contains, nor was manufac- Class I or Class II ODS as defined by the U.S. et Section 602 (40 CFR 82, Subpt. A, App.A + B).
Addition mation	onal ecological infor- า	unprofession Very toxic to	ental hazard cannot be excluded in the event of al handling or disposal. aquatic life. atic life with long lasting effects.
<u>Comp</u>	oonents:		
Naphi ics):	ta (Petroleum), hydro	treated heavy (Hy	drocarbons, C11-C12, isoalkanes, <2% aromat-
•	onal ecological infor-	: No data avai	lable

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

mation

Waste from residues	:	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. Dispose of wastes in an approved waste disposal facility.
Contaminated packaging	:	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. Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG	
UN number	: UN 3113
Proper shipping name	: ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE
	CONTROLLED
	(1,1-DI-(tert-BUTYLPEROXY)-3,3,5-
	TRIMETHYLCY CLOHE XANE, tert-BUTYL PEROXY-2-
	ETHYLHEXANOATE)
Class	: 5.2
Packing group	: Not assigned by regulation

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Labe	ls	: 5.2		
	-DGR permitted for transport			
UN n	3-Code number er shipping name	CON (1,1- TRIN	ANIC PERO TROLLED DI-(tert-BUTY	XIDE TYPE C, LIQUID, TEMPERATURE LPEROXY)-3,3,5- .OHEXANE, tert-BUTYL PEROXY-2- TE)
Labe EmS	ing group	: 5.2 : Not a : 5.2 : F-F, : yes	assigned by r S-R	egulation
Tran	sport in bulk accordin	g to Anne:	k II of MARP	OL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	:	UN 3113
Proper shipping name	:	Organic peroxide type C, liquid, temperature controlled (1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane, 25%, tert-Butyl peroxy-2-ethylhexanoate, 50%)
Class	:	5.2
Packing group	:	Not assigned by regulation
Labels	:	ORGANIC PEROXIDE
ERG Code	:	148
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.

Additional advice

Temperature controlled tra	anspo	ort.:
Control temperature	:	20 °C
Emergency temperature	:	25 °C

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	: Flammable (gases, aerosols, liquids, or solids)
	Organic peroxides
	Respiratory or skin sensitization
	Reproductive toxicity
	Aspiration hazard

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

International Regulations

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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

These safety instructions also apply to empty packaging which may still contain product residues.

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

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Full text of other abbreviations

OSHA PO	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
OSHA P0/TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office

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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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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