# Nouryon

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## **BUTANOX LPT-IN**

Version 6	Revision Date: 20 Date of first issue:		Print Da	ate: 2023/03/14	CN / EN
1. IDENTIFICAT	TION OF THE SUB	STANCE/MIX	TURE AND	OF THE COMPANY/UN	IDERTAKING
Product Info Trade name		: BUTANO>	K LPT-IN		
Use of the Substance/	Mixture	: Specific us	se(s):	Curing agent	
Company		Haaksberg	gweg 88 BZ Amster	Chemicals B.V. dam	
Telephone Telefax E-mail addr Emergency number		: 24 hours:- CA-CANU 化学事故♪ Nouryon E	meia@noui +31 57 06 7 TEC:1-613 立急咨询电t Emergency Registration	ryon.com 9211, US-CHEMTREC:1 -996-6666, JP: +81 (836) 舌:+86 532 8388 9090-: Response Centre: +31 5 Centre of Chemicals (NF	) 74 8810, CN: 70 679211

## 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance			
Form	liquid		
Colour	colourless		
Odour	Faint.		
GB 6944/12268			
UN number	UN 3105		
Proper shipping name	ORGANIC PEROXIDE TYPE D, LIQUID		
	(Methyl ethyl ketone peroxide)		
Class 5.2			
Packing group Not Assigned			
Hazard Summary			
General advice	Immediate medical attention is required.		
	Move out of dangerous area.		

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	Show th	is safety data sheet to the doctor in attendance.	
Physical and hazards	d chemical Heating	may cause a fire.	
Health haza	rds		
Inhalation	membra Thermal vapours	decomposition can lead to release of irritating gases	and
Skin	May be	ns may be delayed. harmful in contact with skin. severe skin burns.	
Eyes	Causes	serious eye damage.	
Ingestion	Harmful Causes	if swallowed. burns.	
Environmen	tal hazards An envir	onmental hazard cannot be excluded in the event of sional handling or disposal.	

#### **GHS Classification**

Organic peroxides, Type D Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Acute toxicity, Category 5, Dermal Skin corrosion/irritation, Category 1 Serious eye damage/eye irritation, Category 1 Short-term (acute) aquatic hazard, Category 2

## **GHS label elements**

Hazard pictograms	
Signal word	Danger
Hazard statements	H242 Heating may cause a fire. H302 + H332 Harmful if swallowed or if inhaled. H313 May be harmful in contact with skin. H314 Causes severe skin burns and eye damage. H401 Toxic to aquatic life.
Precautionary statements	<ul> <li>Prevention:</li> <li>P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.</li> <li>P220 Keep/ Store away from clothing/ combustible materials.</li> <li>P234 Keep only in original container.</li> <li>P235 Keep cool.</li> <li>P261 Avoid breathing mist, vapours or spray.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>Response:</li> <li>P301 + P312 + P330 IF SWALLOWED: Call a POISON</li> </ul>

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	P301 + induce P303 + immedi shower P305 + water fo and eas CENTE P312 C P363 W P370 + foam, d <b>Storage</b> P405 S P410 P P420 S <b>Dispos</b>	P351 + P338 + P310 IF IN EYES: Rins or several minutes. Remove contact lens sy to do. Continue rinsing. Immediately of R/ doctor. all a POISON CENTER/ doctor if you fe /ash contaminated clothing before reuse P378 In case of fire: Use water spray, a ry chemical or carbon dioxide to extingu e: tore locked up. rotect from sunlight. tore away from other materials. <b>al:</b> ispose of contents/container in accorda	mouth. Do NOT ke off kin with water/ e cautiously with ses, if present call a POISON eel unwell. e. alcohol-resistant uish.
	, C		
Physical and chemi Heating may cause a			
Health hazards			
Inhalation	membra Thermal and vap	decomposition can lead to release of ir	
Skin	: Symptor	ns may be delayed. harmful in contact with skin.	
		severe skin burns.	
	Causes		
Eyes Ingestion	Causes : Causes	severe skin burns. serious eye damage. if swallowed.	
Eyes	Causes : Causes : Harmful Causes	severe skin burns. serious eye damage. if swallowed.	
Eyes Ingestion Further information <b>Test result</b>	Causes : Causes : Harmful Causes : No furth	severe skin burns. serious eye damage. if swallowed. burns. er data available.	
Eyes Ingestion Further information	Causes : Causes : Harmful Causes : No furth : LD50 Or Species	severe skin burns. serious eye damage. if swallowed. burns. er data available. ral: 1,017 mg/kg	
Eyes Ingestion Further information <b>Test result</b>	Causes : Causes : Harmful Causes : No furth : LD50 Or Species Method: : :	severe skin burns. serious eye damage. if swallowed. burns. er data available. ral: 1,017 mg/kg : rats	

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## Method: OECD Test Guideline 402

#### Environmental hazards

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Other hazards

No further data available.

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

Chemical nature : Mixture

#### Hazardous substance

Chemical name	CAS-No.	Classification	Concentration [%]
Methyl ethyl ketone peroxide;Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane	1338-23-4	Org. Perox. A; H240 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 5; H313 Skin Corr./Irrit. 1; H314 Eye Dam./Irrit. 1; H318 Aquatic Acute 2; H401	30 - 37
Methyl ethyl ketone	78-93-3	Flam. Liq. 2; H225 Acute Tox. 5; H303 Eye Dam./Irrit. 2A; H319 STOT SE 3; H336	1 - 5

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES	
General advice	: Immediate medical attention is required. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.
Inhalation	: If breathed in, move person into fresh air. Consult a physician after significant exposure.
Skin contact	: Take off contaminated clothing and shoes immediately. Rinse immediately with plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Eye contact	<ul> <li>Rinse with plenty of water. Get medical attention immediately. Continue to rinse during transport. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.</li> </ul>
Ingestion	<ul> <li>Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. Do not induce vomiting! May cause chemical burns in mouth and throat.</li> </ul>

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Notes to phy Symptoms	vsician		rmptoms and effects are as expected fror own in section 2. No specific product relat own.	
Risks		May be Cause	ul if swallowed or if inhaled. e harmful in contact with skin. s serious eye damage. s severe burns.	
Treatment		: Treats	symptomatically.	
IREFIGHTING	MEASURES			
Suitable extin	guishing media		ater spray, alcohol-resistant foam, dry ch n dioxide.	emical or
Unsuitable ex media	tinguishing	: High v	olume water jet	
Specific haza firefighting / S arising from t	Specific hazards	Suppo Do not fire. Water firefigh Do not course	t allow run-off from fire fighting to enter dr es. dous decomposition products formed unc	experienced rains or water
Combustion p	products		ill produce smoke containing hazardous on the section 10).	combustion
Special prote for firefighters		: In the	event of fire, wear self-contained breathir	ıg apparatus.
Further inforn	nation	Collec must r Fire re	ater spray to cool unopened containers. t contaminated fire extinguishing water sent to be discharged into drains. sidues and contaminated fire extinguishing posed of in accordance with local regulation	ng water must

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	: Use personal protective equipment.
	Wear respiratory protection.
	Ensure adequate ventilation.
	Remove all sources of ignition.
	Beware of vapours accumulating to form explosive
	concentrations. Vapours can accumulate in low areas.

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	ergency measures on dental release	:	Only qualified equipment ma		d with suitable protective	e
Env	ironmental precautions	:		uct from entering dra the environment m		
	hods for cleaning up / hods for containment	:	hazardous wa Use only iner as absorbent Keep mixture with water. Confinement	iste. i inorganic material s	erial and dispose of as such as vermiculite or p al and spilled product w ainers for re-use.	
Refe	erence to other sections	:	For disposal of	considerations see s	ection 13.	
			For personal	protection see section	on 8.	

## 7. HANDLING AND STORAGE

<b>Handling</b> Advice on safe handling	<ul> <li>For personal protection see section 8. Avoid formation of aerosol. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.</li> </ul>
Advice on protection against fire and explosion	<ul> <li>Use explosion protected equipment. Keep away from sources of ignition - No smoking. No sparking tools should be used. Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps).</li> <li>Do not cut or weld on or near this container even when empty. Keep away from combustible material.</li> </ul>
Temperature class	: It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded.
Storage Requirements for storage areas and containers	<ul> <li>No smoking.</li> <li>Keep in a well-ventilated place.</li> <li>Electrical installations / working materials must comply with the technological safety standards.</li> <li>Keep only in original container.</li> <li>Store away from other materials.</li> </ul>
Maximum storage	: 25 °C

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temperature:

Other data : No decomposition if stored and applied as directed.

Maximum storage temperature is for quality only.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methyl ethyl ketone	78-93-3	PC-TWA	300 mg/m3	CN OEL
		PC-STEL	600 mg/m3	CN OEL
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH

## Occupational exposure limits of decomposition products

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
Formic acid	64-18-6	PC-TWA	10 mg/m3	CN OEL
		PC-STEL	20 mg/m3	CN OEL
		TWA	5 ppm	ACGIH
		STEL	10 ppm	ACGIH
Acetic acid	64-19-7	PC-TWA	10 mg/m3	CN OEL
		PC-STEL	20 mg/m3	CN OEL
		TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
Propionic acid	79-09-4	PC-TWA	30 mg/m3	CN OEL
		TWA	10 ppm	ACGIH
Methyl ethyl ketone	78-93-3	PC-TWA	300 mg/m3	CN OEL
		PC-STEL	600 mg/m3	CN OEL
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH

Engineering measures :	Explosion proof ventilation recommended. Effective exhaust ventilation system Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protective equipment	

Respiratory protection	:	In the case of vapour or aerosol formation use a respirator with an approved filter. Filter A
Eye/face protection	:	Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.

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Skin and body protection	:	Protective su	ıit	
Hand protection Material	:	Neoprene		
Material Remarks	:	Nitrile rubber Breakthroug gloves often	h time is not determined for the prod	uct. Change
Material Break through time Glove thickness Remarks	: : :	standard val	but break through time/strength of m ues! The exact break through time/s to be obtained from the producer of ove.	trength of
Hygiene measures	:	practice. When using When using	cordance with good industrial hygier do not eat or drink. do not smoke. before breaks and at the end of wor	
Environmental exposure co General advice	:	Prevent proc Discharge in	luct from entering drains. to the environment must be avoided	
9. PHYSICAL AND CHEMICAL P	ROF			
Appearance	:	liquid		
Colour	:	colourless		
Odour	:	Faint.		
Odour Threshold	:	No data ava	lilable	
рН	:	Not applical	ble	
Melting point	:	No data ava	ilable	
Boiling point/boiling range	:	Decompose	es below the boiling point.	
Flash point	:	Above the S	SADT value	
Evaporation rate	:	No data ava	ilable	
Flammability (liquids)	:	Decomposit	ion products may be flammable.	
Upper explosion limit / Upper flammability limit	:	No data ava	ilable	

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Lower explosion limit / Lowe flammability limit	r:	No data available
Vapour pressure	:	not determined
Relative vapour density	:	No data available
Relative density	:	1.012 (20 °C)
Bulk density	:	Not applicable
Solubility(ies) Water solubility	:	immiscible (20 °C)
Solubility in other solvents	s :	Miscible with:, Phthalates
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	Test method not applicable
Decomposition temperature	:	SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.
Self-Accelerating decomposition temperature (SADT)	:	60 °C
Viscosity Viscosity, dynamic	:	32.4 mPa.s ( 20 °C)
Viscosity, kinematic	:	32.02 mm2/s ( 20 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidising.
Active Oxygen Content	:	8.4 - 8.5 %
Organic peroxides	:	30 - 37 %

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

## **10. STABILITY AND REACTIVITY**

Conditions to avoid	: Confinement must be avoided.
	Heat, flames and sparks.

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Materials to avoid	hazardo Acids a Iron Copper Reducin Heavy r Rust Do not process Use on equipm For que	ng agents metals mix with peroxide accelerators, unless unc sing. ly stainless steel 316, PP, polyethylene or	ler controlled glass-lined
Hazardous decomposition products	: Carbon Formic Acetic a Propior Methyl	acid acid	
Thermal decomposition	lowest t may oc transpo reactior can be SADT.	(Self accelerating decomposition temperate emperature at which self accelerating decour with a substance in the packaging as u rt. A dangerous self-accelerating decompo- n and, under certain circumstances, explosing caused by thermal decomposition at and a Contact with incompatible substances can position below the SADT.	omposition used in osition sion or fire above the
Reactivity	: Stable	under normal conditions.	
Chemical stability	: Stable	under recommended storage conditions.	
Hazardous reactions	: No dan	gerous reaction known under conditions of	f normal use.
Self-Accelerating decomposition temperature (SADT)	: 60 °C		

#### **11. TOXICOLOGICAL INFORMATION**

# PRODUCT INFORMATION: Hazard Summary Acute toxicity : Harmful if swallowed or if inhaled.<br/>May be harmful in contact with skin. Skin corrosion/irritation : Causes severe burns. Serious eye damage/eye<br/>irritation : Causes serious eye damage.

Respiratory or skin sensitisation	:	Respiratory sensitisation: Not classified based on available information. Skin sensitisation: Not classified based on available
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	information	on.	
Germ cell mutagenicity	: Not class	ified based on available information.	
Carcinogenicity	: Not class	ified based on available information.	
Reproductive toxicity	: Not class	ified based on available information.	
STOT - single exposure	: Not class	ified based on available information.	
STOT - repeated exposure	: Not class	ified based on available information.	
Aspiration hazard	: Not class	ified based on available information.	
Potential Health Effects Inhalation	membran	lecomposition can lead to release of i urs.	
Skin	May be ha	s may be delayed. armful in contact with skin. evere skin burns.	
Eyes	: Causes se	erious eye damage.	
Ingestion	: Harmful if Causes b	swallowed. urns.	
Aggravated Medical Condition	: None kno	wn.	
Symptoms of Overexposure		toms and effects are as expected from in section 2. No specific product relat n.	
Toxicology Assessment Further information	: No further	data available.	
Test result Acute oral toxicity	Species: I	I: 1,017 mg/kg rats DECD Test Guideline 401	
Acute inhalation toxicity	: LC50 (Ra Exposure Test atmo		
Acute dermal toxicity	: LD50: 4,0 Species: I Method: 0		

## TOXICOLOGY DATA FOR THE COMPONENTS:

#### Test result

	e perox	ide;Reaction mass of butane-2,2-diyl dihydroperoxide
and di-sec-butylhexaoxidane Acute oral toxicity	Specie	1,017 mg/kg s: Rat : OECD Test Guideline 401
Acute inhalation toxicity	Exposit Test at	Rat, male and female): 1.5 mg/l re time: 4 h nosphere: dust/mist : OECD Test Guideline 403 o
Acute dermal toxicity	Specie	4,000 mg/kg s: Rabbit : OECD Test Guideline 402
Skin irritation	Result:	Causes burns.
Eye irritation	Result:	Risk of serious damage to eyes.
Germ cell mutagenicity Genotoxicity in vitro	Ames t Result:	est negative
Genotoxicity in vivo		ssified due to data which are conclusive although ent for classification.
Carcinogenicity	No data	a available
Reproductive toxicity/Fertility	Applica Dose: ( Genera 50 mg/kg Genera mg/kg Fertility bw/day	: No observed adverse effect level Parent: 75 mg/kg : OECD Test Guideline 421
Target Organ Systemic Toxicant - Repeated exposure		ostance or mixture is not classified as specific target oxicant, repeated exposure.
Aspiration toxicity	No asp	iration toxicity classification

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Componen	t: Methyl ethyl k	etone		
Acute oral t	oxicity		2,737 mg/kg es: Rat	
Acute derm	al toxicity		6,480 mg/kg es: Rabbit	
Skin irritatio	n	cracki	t: Repeated exposure may cause skin dr ng. rately irritating.	ryness or
Eye irritation	ı	: Result	t: Irritating to eyes.	
• •	an Systemic Single exposure	The su	ure routes: Inhalation ubstance or mixture is classified as spec nt, single exposure, category 3 with narc	5 5
Aspiration to	oxicity	: No as	piration toxicity classification	

## 12. ECOLOGICAL INFORMATION

## PRODUCT INFORMATION:

Ecotoxicology	Assessment
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Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Test result		
Ecotoxicity effects Toxicity to fish	:	LC50: 44.2 mg/l Exposure time: 96 h Species: Poecilia reticulata (guppy) Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50: 39 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test Type: Immobilization
Toxicity to algae	:	ErC50: 5.6 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (algae) Test Type: Growth inhibition
Toxicity to bacteria	:	EC10: 12 mg/l Exposure time: 0.5 h Species: activated sludge Test Type: Respiration inhibition Method: Domestic OECD Guideline 209

#### COMPONENTS:

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ve	rsion	0

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## Test result

# Component: Methyl ethyl ketone peroxide;Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane

Ecotoxicity effects Toxicity to fish	LC50: 44.2 mg/l Exposure time: 96 h Species: Poecilia reticulata (guppy) Test Type: semi-static test Method: OECD Test Guideline 203
	NOEC: 18 mg/l Exposure time: 96 h Species: Poecilia reticulata (guppy) Test Type: semi-static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	EC50: 39 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test Type: Immobilization Method: OECD Test Guideline 202
	NOEC: 26.7 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea) Test Type: Immobilization Method: OECD Test Guideline 202
Toxicity to algae	ErC50: 5.6 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (algae) Test Type: Growth inhibition Method: OECD Test Guideline 201
	NOEC: 2.1 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (algae) Test Type: Growth inhibition Method: OECD Test Guideline 201
Toxicity to bacteria	EC50: 48 mg/l Exposure time: 0.5 h Species: activated sludge Test Type: Respiration inhibition Method: Domestic OECD Guideline 209
	EC10: 12 mg/l Exposure time: 0.5 h Species: activated sludge Test Type: Respiration inhibition Method: Domestic OECD Guideline 209

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	Elimination Bioaccumula	<b>information (persis</b> ation :	Bioconcentra	<b>gradability)</b> tion factor (BCF): 10.3 I considering the low log Pow value.	
	Biodegradability :			ily biodegradable. ed Bottle test	
	<u>Component</u>	: Methyl ethyl ketor	<u>1e</u>		
	Ecotoxicity Toxicity to fis		LC50: 3,220 Exposure tim Species: Lep		
	<b>Elimination</b> Biodegradab	<b>information (persis</b> bility :		<b>gradability)</b> ily biodegradable.	
13. I	DISPOSAL C	ONSIDERATIONS			
	Product	:	courses or th Do not conta chemical or u	should not be allowed to enter drains, wate e soil. minate ponds, waterways or ditches with used container. ontents/container in accordance with local	ər
	Contaminate	ed packaging :	Do not burn, Due to the hi recommende	s unused product. or use a cutting torch on, the empty drum. gh risk of contamination recycling/recovery	/ is not

## 14. TRANSPORT INFORMATION

## International Regulations

IATA-DGR	
UN/ID No.	: UN 3105
Proper shipping name	: Organic peroxide type D, liquid (Methyl ethyl ketone peroxide)
Class	: 5.2
Subsidiary risk	: HEAT
Packing group	: Not Assigned
Labels	: 5.2 (HEAT)
Packing instruction (cargo aircraft)	: 570
Packing instruction (passenger aircraft)	: 570
Environmentally hazardous	: no

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<b>IMDG-C</b> UN numb Proper si		:	UN 3105 ORGANIC PEROXIDE TYPE D, LIQUID (Methyl ethyl ketone peroxide)
Class Packing	group	:	5.2 Not Assigned
Labels EmS Coo Marine p		:	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.

#### **National Regulations**

GB 6944/12268	
UN number	: UN 3105
Proper shipping name	: ORGANIC PEROXIDE TYPE D, LIQUID
	(Methyl ethyl ketone peroxide)
Class	: 5.2
Packing group	: Not Assigned
Labels	: 5.2
Environmentally hazardous	: no
Packing group Labels	5.2 Not Assigned 5.2

## **15. REGULATORY INFORMATION**

## Notification status

TCSI TSCA			On the inventory, or in compliance with the inventory All substances listed as active on the TSCA inventory
AICS	:	YES.	On the inventory, or in compliance with the inventory
DSL	:	YES.	All components of this product are on the Canadian DSL
ENCS	:	YES.	On the inventory, or in compliance with the inventory
ISHL	:	YES.	On the inventory, or in compliance with the inventory
KECI	:	YES.	On the inventory, or in compliance with the inventory
PICCS	:	YES.	On the inventory, or in compliance with the inventory
IECSC	:	YES.	On the inventory, or in compliance with the inventory
NZIoC	:	YES.	On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

#### National regulatory information

#### **Further information**

Law on the Prevention and Control of Occupational Diseases

## **16. OTHER INFORMATION**

## Full text of H-Statements

H240 :	Highly flammable liquid and vapour. Heating may cause an explosion.
	Harmful if swallowed. May be harmful if swallowed.
	May be harmful in contact with skin.
	Causes severe skin burns and eye damage.
	Causes serious eye damage.
	Causes serious eye irritation.
	Harmful if inhaled.
H336 :	May cause drowsiness or dizziness.

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H401	:	Toxic to aquatic life.	
Full text	of other abbreviations		
ACGIH CN OEL	:	USA. ACGIH Threshold Limit Values (TLV) Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.	
		8-hour, time-weighted average Short-term exposure limit Permissible concentration - time weighted average Permissible concentration - short term exposure limit	

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG -International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

This data sheet contains changes from the previous version in section(s): Transport information

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

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