SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

TRIGONOX 249 VRN

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3.0	30.06.2023		Date of first issue: 19.11.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier		
	Trade name	:	TRIGONOX 249 VRN
	UFI		0TH5-402J-W00F-8NDX
1.2	Relevant identified uses of th	ne s	ubstance or mixture and uses advised against
	Use of the Substance/Mixture		Curing agent
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	Nouryon Functional Chemicals B.V. Haaksbergweg 88 NL 1101 BZ Amsterdam Netherlands
	Telephone	:	+31889840367
	E-mail address of person responsible for the SDS	:	polymer.emeia@nouryon.com
1.4	Emergency telephone number	er	
	Emergency telephone number	:	24 hours:+31 57 06 79211, US-CHEMTREC:1-800-424-9300, CA-CANUTEC:1-613-996-6666, JP: +81 (836) 74 8810, CN: 化学事故应急咨询电话:+86 532 8388 9090-: Nouryon Emergency Response Centre:+31 570 679211

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)				
Organic peroxides, Type D	H242: Heating may cause a fire.			
Acute toxicity, Category 4	H302: Harmful if swallowed.			
Acute toxicity, Category 4	H332: Harmful if inhaled.			

Poison Centre: 82121212

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Acute toxicity, Category 4

Skin corrosion, Sub-category 1B

Serious eye damage, Category 1

Carcinogenicity, Category 1B

Specific target organ toxicity - single exposure, Category 3, Respiratory system

Specific target organ toxicity - repeated exposure, Category 2

Long-term (chronic) aquatic hazard, Category 3

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H350: May cause cancer.

H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

LZ.

2.2 Label elements

 Labelling (REGULATION (EC) No 1272/2008)

 Hazard pictograms

 :

		\checkmark \checkmark \checkmark \checkmark
Signal word	:	Danger
Hazard statements	:	 H242 Heating may cause a fire. H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H350 May cause cancer. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:P201Obtain special instructions before use.P210Keep away from heat, hot surfaces, sparks, openflames and other ignition sources. No smoking.P234Keep only in original packaging.P260Do not breathe mist or vapours.P280Wear protective gloves/ protective clothing/ eye

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protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P370 + P378 In case of fire: Use water spray, alcoholresistant foam, dry chemical or carbon dioxide to extinguish.

Hazardous components which must be listed on the label:

Methyl ethyl ketone peroxide;Reaction mass of butane-2,2-diyl dihydroperoxide and di-secbutylhexaoxidane Cumyl hydroperoxide Cumene

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Methyl ethyl ketone	1338-23-4	Org. Perox. A; H240	>= 20 - <= 25
peroxide;Reaction mass of	215-661-2	Acute Tox. 4; H302	
butane-2,2-diyl dihydroperoxide		Acute Tox. 4; H332	

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3.0 and c	30.06.2023 di-sec-butylhexaoxidane	80-15-9 201-254-7 617-002-00-8	Date of first issue: 19.11.2018Skin Corr. 1B; H314Eye Dam. 1; H318Acute Dam. 1; H318Acute toxicityestimateAcute oral toxicity:1.017 mg/kgAcute inhalationtoxicity (dust/mist):1,5 mg/lOrg. Perox. E; H242Acute Tox. 4; H302Acute Tox. 4; H312Skin Corr. 1B; H314Eye Dam. 1; H318STOT RE 2; H373Aquatic Chronic 2;H411	>= 20 - <= 24
			specific concentration limit Skin Corr. 1B; H314 >= 10 % Skin Irrit. 2; H315 3 - < 10 % Eye Dam. 1; H318 3 - < 10 % Eye Irrit. 2; H319 1 - < 3 % STOT SE 3; H335 >= 1 % Acute toxicity estimate Acute oral toxicity: 382 mg/kg Acute dermal toxicity: 1.200 mg/kg	
2-Ph	enylisopropanol	617-94-7 210-539-5	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - <= 3

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		Acute toxicity estimate Acute oral toxicity: 1.300 mg/kg		
Cumene	98-82-8 202-704-5 601-024-00-X	Flam. Liq. 3; H226 Carc. 1B; H350 STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	< 1	
Dicumyl peroxide	80-43-3 201-279-3 617-006-00-X	Org. Perox. F; H242 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 1B; H360D Aquatic Chronic 2; H411	< 0,2	
Substances with a workplace	Substances with a workplace exposure limit :			
Dimethyl phthalate	131-11-3 205-011-6		>= 40 - <= 60	

For explanation of abbreviations see section 16.

Remarks : Substances with a workplace exposure limit

SECTION 4: First aid measures

4.1 Description of 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.
If inhaled	:	If breathed in, move person into fresh air. Consult a physician after significant exposure.
In case of 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. If skin irritation persists, call a physician.
In case of eye contact	:	Rinse with plenty of water.

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lf swall	owed	:	Get medical attent transport. Remove contact le Protect unharmed Keep eye wide op Small amounts sp tissue damage an Clean mouth with Never give anythin Take victim immed	tion immediately. Continue to rinse during enses. eye. en while rinsing. lashed into eyes can cause irreversible d blindness. water and drink afterwards plenty of water. ng by mouth to an unconscious person. diately to hospital.
			Do not induce von and throat.	niting! May cause chemical burns in mouth
4.2 Most im	portant symptoms a	nd e	effects, both acute	and delayed
Sympto	oms	:	The symptoms an as shown in section are known.	d effects are as expected from the hazards on 2. No specific product related symptoms
Risks		:	Harmful if swallow Causes serious ey May cause respira May cause cancer May cause damag exposure. Causes severe bu	red, in contact with skin or if inhaled. ye damage. atory irritation. ye to organs through prolonged or repeated irns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from Specific hazards during firefighting	the :	 substance or mixture CAUTION: reignition may occur. Supports combustion. Water spray may be ineffective unless used by experienced firefighters. Do not allow run-off from fire fighting to enter drains or water

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				courses. Hazardous decom conditions.	position products formed under fire
	Hazardo product:	ous combustion s	:	Fire will produce s products (see sect Carbon oxides	moke containing hazardous combustion ion 10).
5.3 A	Advice f	or firefighters			
	Special for firefig	protective equipment ghters	:	In the event of fire	, wear self-contained breathing apparatus.
	Further	information	:	Use water spray to Collect contaminat must not be discha Fire residues and be disposed of in a	o cool unopened containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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. Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorised persons entering the zone.
6.2 Environmental precautions		
Environmental precautions	:	Prevent product from entering drains. Discharge into the environment must be avoided.
6.3 Methods and material for con	taiı	nment and cleaning up
Methods for cleaning up	:	Soak up with inert absorbent material and dispose of as hazardous waste.

Use only inert inorganic material such as vermiculite or perlite as absorbent.

Keep mixture of absorbent material and spilled product wetted

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with water. Confinement must be avoided. Never return spills in original containers for re-use.

6.4 Reference to other sections

For disposal considerations see section 13. For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	Advice on safe handling	:	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. Obtain special instructions before use.
	Advice on protection against fire and explosion	:	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). Do not cut or weld on or near this container even when empty. Keep away from combustible material.
	Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
	Temperature class	:	It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded.
7.2	Conditions for safe storage, in	ncl	uding any incompatibilities
	Requirements for storage areas and containers	:	Prevent unauthorized access. No smoking. Electrical installations / working materials must comply with the technological safety standards. Keep only in original container. Store away from other materials.
	Further information on storage stability	:	Maximum storage temperature is for quality only.

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Maximum storage : 25 °C temperature:

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Dimethyl phthalate	131-11-3	GV	3 mg/m3	DK OEL	
		S	6 mg/m3	DK OEL	
Methyl ethyl ketone peroxide;Reaction mass of butane- 2,2-diyl dihydroperoxide and di-sec- butylhexaoxidane	1338-23-4	L	1 mg/m3	DK OEL	
Cumene	98-82-8	TWA	20 ppm 100 mg/m3	2000/39/EC	
	Further inform skin, Indicativ	nation: Identifies the e	possibility of significant uptak	through the	
		STEL	50 ppm 250 mg/m3	2000/39/EC	
	Further inform skin, Indicativ	nation: Identifies the e	possibility of significant uptak	through the	
		TWA	10 ppm 50 mg/m3	2019/1831/E U	
	Further information: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin.,				
		STEL	50 ppm 250 mg/m3	2019/1831/E U	
	Further information: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin., Indicative				
		GV	10 ppm 50 mg/m3	DK OEL	
	Further inform	nation: Means that th	e substance can be absorbe	d through the	

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skin., Guiding	list of organic solver	nts.			
	S	50 ppm 250 mg/m3	DK OEL		
Further information: Means that the substance can be absorbed through the skin., Guiding list of organic solvents.					

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form	Control parameters	Basis	
		of exposure)			
Formic acid	64-18-6	TWA	5 ppm 9 mg/m3	2006/15/EC	
	Further infor	mation: Indicative	•g,e		
		GV	5 ppm	DK OEL	
			9 mg/m3		
_	Further infor	mation: Guiding list of	f organic solvents.		
		S	10 ppm	DK OEL	
			18 mg/m3		
	Further infor	mation: Guiding list of	f organic solvents.		
Organic acid	64-19-7	TWA	10 ppm	2017/164/EU	
			25 mg/m3		
	Further infor	mation: Indicative			
		STEL	20 ppm	2017/164/EU	
			50 mg/m3		
	Further infor	ther information: Indicative			
		GV	10 ppm	DK OEL	
			25 mg/m3		
	Further infor	mation: Guiding list of	f organic solvents.		
		S	20 ppm	DK OEL	
			50 mg/m3		
	Further infor	mation: Guiding list of	f organic solvents.		
Fatty acid	79-09-4	STEL	20 ppm	2000/39/EC	
			62 mg/m3		
	Further infor	mation: Indicative			
		TWA	10 ppm	2000/39/EC	
			31 mg/m3		
	Further infor	mation: Indicative			
		GV	10 ppm	DK OEL	
			31 mg/m3		
	Further infor	mation: Guiding list of	f organic solvents.		
		S	20 ppm	DK OEL	
			62 mg/m3		
	Further infor	mation: Guiding list of	f organic solvents.		
Methyl ethyl	78-93-3	STEL	300 ppm	2000/39/EC	
ketone			900 mg/m3		

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	Further info	Further information: Indicative				
		TWA	200 ppm	2000/39/EC		
			600 mg/m3			
	Further info	rmation: Indicative				
		GV	50 ppm	DK OEL		
			145 mg/m3			
	Further info	Further information: Means that the substance can be absorbed through the				
	skin., Guidi	skin., Guiding list of organic solvents.				
		S	300 ppm	DK OEL		
			900 mg/m3			
	Further info	Further information: Means that the substance can be absorbed through the				
	skin., Guidi	ng list of organic solve	ents.	-		
Acetophenone	98-86-2	GV	10 ppm	DK OEL		
			49 mg/m3			
	Further info	Further information: Guiding list of organic solvents.				
		S	20 ppm	DK OEL		
98 mg/m3						
	Further info	rmation: Guiding list of	of organic solvents.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Methyl ethyl ketone peroxide;Reaction mass of butane-2,2- diyl dihydroperoxide and di-sec- butylhexaoxidane	Consumers	Skin contact	Long-term systemic effects	0,54 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0,41 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0,27 mg/kg
	Workers	Skin contact	Long-term systemic effects	1,08 mg/kg
	Workers	Inhalation	Long-term systemic effects	1,9 mg/m3
Dimethyl phthalate	Consumers	Ingestion	Long-term systemic effects	25 mg/kg
	Consumers	Inhalation	Long-term systemic effects	86,96 mg/m3
	Consumers	Skin contact	Long-term systemic effects	60 mg/kg
	Workers	Inhalation	Long-term systemic effects	293,86 mg/m3
	Workers	Skin contact	Long-term systemic	100 mg/kg

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			effects	
Cumyl hydroperoxide	Workers	Inhalation	Long-term systemic effects	6 mg/m3
Cumene	Workers	Inhalation	Long-term systemic effects	100 mg/m3
	Workers	Inhalation	Acute local effects	250 mg/m3
	Workers	Dermal	Long-term systemic effects	15,4 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	16,6 mg/m3
	Consumers	Dermal	Long-term systemic effects	1,2 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	5 mg/kg bw/day
Dicumyl peroxide	Workers	Inhalation	Long-term systemic effects	5,6 mg/m3
	Workers	Dermal	Long-term systemic effects	0,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,4 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,4 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,4 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Methyl ethyl ketone	Fresh water	0,0056 mg/l
peroxide;Reaction mass of		
butane-2,2-diyl dihydroperoxide		
and di-sec-butylhexaoxidane		
	Intermittent water	0,056 mg/l
	Marine water	0,00056 mg/l
	Fresh water sediment	0,019 mg/kg dry
		weight
	Marine sediment	0,0019 mg/kg dry
		weight
	Sewage treatment plant	1,2 mg/l
	Soil	0,00231 mg/kg
		dry weight
Dimethyl phthalate	Fresh water	0,192 mg/l
	Marine water	0,0192 mg/l
	Intermittent water	0,39 mg/l
	Sewage treatment plant	4 mg/l
	Fresh water sediment	1,403 mg/kg dry

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		weight
	Soil	3,16 mg/kg dry
		weight
Cumyl hydroperoxide	Fresh water	0,0031 mg/l
	Marine water	0,00031 mg/l
	Intermittent water	0,031 mg/l
	Sewage treatment plant	0,35 mg/l
	Fresh water sediment	0,023 mg/kg
	Marine sediment	0,0023 mg/kg
	Soil	0,0029 mg/kg
Cumene	Fresh water	0,035 mg/l
	Intermittent water	0,012 mg/l
	Marine water	0,004 mg/l
	Sewage treatment plant	200 mg/l
	Fresh water sediment	3,22 mg/kg dry weight
	Marine sediment	0,322 mg/kg dry weight
	Soil	0,624 mg/kg dry weight
Dicumyl peroxide	Fresh water	0,00234 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	2,24 mg/kg dry weight
	Soil	0,447 mg/kg dry weight

8.2 Exposure controls

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**

i oloonal protootivo oquipinon	
Eye/face protection :	Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Hand protection Material :	Neoprene
Material :	Nitrile rubber
Skin and body protection :	Protective suit

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Respiratory protection : In the case of vapour or aerosol formation use a respirator with an approved filter. Filter A

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	red
Odour	:	Faint.
Odour Threshold	:	No data available
Melting point	:	No data available
Boiling point/boiling range	:	Decomposes below the boiling point.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Above the SADT value
		No flash point was obtained, but the product may release flammable vapour.
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

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				transport. A dang reaction and, und can be caused by SADT. Contact w decomposition be	gerous self-accelerating decomposition der certain circumstances, explosion or fire y thermal decomposition at and above the vith incompatible substances can cause elow the SADT.
Si de (S	elf-Acc ecomp SADT)	celerating osition temperature	:	60 °C	
pł	Н		:	substance/mixtur	re not stable
Vi	iscosit Visco	y osity, dynamic	:	24,9 mPa.s (20 °	C)
	Visco	osity, kinematic	:	21,84 mm2/s (20	°C)
S	olubilit Wate	y(ies) er solubility	:	(20 °C) partly miscible	
	Solu	bility in other solvents	:	(20 °C) Description: Misc	bible with:, Phthalates
Pa	artitior ctanol/	n coefficient: n- water	:	No data available	9
V	apour	pressure	:	not determined	
R	lelative	edensity	:	1,14 (20 °C)	
В	ulk dei	nsity	:	Not applicable	
R	elative	e vapour density	:	No data available	9

9.2 Other information

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Explo	sives	:	Not explosive	
Oxidiz	zing properties	:	Not classified as	oxidising.
Flamr	nability (liquids)	:	Decomposition p	roducts may be flammable.
Evapo	pration rate	:	No data available)
Active	e Oxygen Content	:	8,5 %	

SECTION 10: Stability and reactivity

10.1	Reactivity	
	Stable under normal conditions.	
10.2	Chemical stability	
	Stable under recommended storage	je conditions.
10.3	Possibility of hazardous reactio	ns
	Hazardous reactions :	No dangerous reaction known under conditions of normal use.
10.4	Conditions to avoid	
	Conditions to avoid :	Confinement must be avoided. Heat, flames and sparks.
10.5	Incompatible materials	
	Materials to avoid :	Contact with the following incompatible materials will result in hazardous decomposition: Acids and bases Iron Copper Reducing agents Heavy metals Rust Do not mix with peroxide accelerators, unless under controlled processing. Use only stainless steel 316, PP, polyethylene or glass-lined equipment.
		For queries regarding the suitability of other materials please

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contact the supplier.

10.6 Hazardous decomposition products

No decomposition if stored and a Hazardous decomposition products	applied as directed. Formic acid Organic acid Fatty acid Methyl ethyl ketone Carbon oxides Acetophenone Methane 2-Phenylisopropanol
Thermal decomposition	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

SECTION 11: Toxicological information

Acute toxicity

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Harmful if swallowed, in contact with skin or if inhaled.				
Product:				
Acute oral toxicity	:	LD50 (Rat): 727 mg/kg Remarks: The value is calculated		
Acute inhalation toxicity	:	LC50 (Rat): 1,01 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: The value is calculated		
Acute dermal toxicity	:	LD50: 1.915 mg/kg Remarks: The value is calculated		

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Components:

Methyl ethyl ketone peroxide;Reaction mass of butane-2,2-diyl dihydroperoxide and disec-butylhexaoxidane:

Acute oral toxicity	:	LD50 (Rat, male): 1.017 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat, male and female): 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: no
Acute dermal toxicity	:	LD50 (Rabbit, male and female): 4.000 mg/kg Method: OECD Test Guideline 402
Cumyl hydroperoxide:		
Acute oral toxicity	:	LD50 Oral (Rat, male): 382 mg/kg
		Acute toxicity estimate: 382 mg/kg Method: Calculation method
Acute inhalation toxicity	÷	LC50: 1,370 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is toxic after short term inhalation.
Acute dermal toxicity	:	LD50 (Rat): 1.200 - 1.520 mg/kg
		LD50 (Rabbit): 134 mg/kg
		Acute toxicity estimate: 1.200 mg/kg Method: Calculation method
2-Phenylisopropanol:		
Acute oral toxicity	:	LD50 (Rat): 1.300 mg/kg Remarks: Information taken from reference works and the literature.
		Acute toxicity estimate: 1.300 mg/kg Method: Calculation method
Cumene:		

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Acute	e oral toxicity	: LD50 (Ra	at): > 2.000 mg/kg	
Dicu	myl peroxide:			
Acute	Acute oral toxicity		at): > 2.000 mg/kg DECD Test Guideline 401 ent: The substance or mixture has no acute oral	
Acute	e dermal toxicity	: LD50 (Ra Method: (Assessm toxicity	at): > 2.000 mg/kg DECD Test Guideline 402 ent: The substance or mixture has no acute dermal	
Dime	ethyl phthalate:			
Acute	e oral toxicity	: LD50 (Ra	at): > 5.000 mg/kg	
Acute	e inhalation toxicity	: Assessm inhalatior	ent: The substance or mixture has no acute toxicity	
Acute	e dermal toxicity	: LD50 (Ra	LD50 (Rabbit): > 10.000 mg/kg	
Skin	corrosion/irritation			
Caus	ses severe burns.			
Com	ponents:			
Meth sec-l	yl ethyl ketone perox butylhexaoxidane:	ide;Reaction m	ass of butane-2,2-diyl dihydroperoxide and di-	
Resu	llt	: Causes b	purns.	
Cum	yl hydroperoxide:			
Spec	ies	: Rabbit		
Asse	ssment	: Category	1B	
Resi	lit	: Causes t	urns.	
2-Ph	enylisopropanol:			
Asse	ssment	: Irritating	o skin.	
Rem	arks	: Intormation	on taken from reference works and the literature.	
Dicu	myl peroxide:			
Asse	ssment	: Irritating	o skin.	
Rem	arks	: Irritating	o skin.	
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Dimethyl phthalate:					
Result :	slight irritation				
Serious eye damage/eye irrita	tion				
Causes serious eye damage.					
Components:					
Methyl ethyl ketone peroxide; sec-butylhexaoxidane:	Reaction mass of butane-2,2-diyl dihydroperoxide and di-				
Result :	Risk of serious damage to eyes.				
O					
Cumyl hydroperoxide:					
Assessment :	Causes severe skin burns and eye damage.				
2-Phenylisopropanol:					
Assessment :	Irritating to eyes.				
Remarks :	Information taken from reference works and the literature.				
Dicumyl peroxide:					
Assessment :	Mild eye irritation				
Remarks :	Causes eye irritation.				
Dimethyl phthalate:					
Result :	Slightly irritating to eyes.				
Respiratory or skin sensitisation					
Skin sensitisation					
Not classified based on available information.					
Respiratory sensitisation					
Not classified based on available information.					
Components:					
Methyl ethyl ketone peroxide:Reaction mass of butane-2.2-divl dihvdroperoxide and di-					
sec-butylhexaoxidane:					
Assessment :	Does not cause skin sensitisation.				

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Cumyl hydroperoxide: Result	:	Not sensitizing.
Dicumyl peroxide: Test Type Species Method Result	:	Local lymph node assay (LLNA) Mouse OECD Test Guideline 429 Not a skin sensitizer.

Germ cell mutagenicity

Not classified based on available information.

Components:

Methyl ethyl ketone peroxide;Reaction mass of butane-2,2-diyl dihydroperoxide and disec-butylhexaoxidane:

Genotoxicity in vitro	:	Test Type: Ames test Result: negative	
Genotoxicity in vivo	:	Remarks: Not classified due to data which are conclusive although insufficient for classification.	
Cumyl hydroperoxide:			
Genotoxicity in vitro	:	Result: Evidence of genotoxic effects in vitro.	
Genotoxicity in vivo	:	Result: No evidence of genotoxic effects in vivo.	
Germ cell mutagenicity- Assessment	:	Not mutagenic.	
Cumene:			
Genotoxicity in vitro	:	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes	
		Test Type: unscheduled DNA synthesis assay Test system: rat hepatocytes Metabolic activation: no Method: OECD Test Guideline 482 Result: negative	

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		GLP: yes	
		Test Type: Test system Metabolic a Method: Of Result: neg GLP: yes	Chromosome aberration test in vitro n: Chinese hamster ovary cells activation: with and without metabolic activation ECD Test Guideline 473 ative
		Test Type: Test system Metabolic a Method: Of Result: neg GLP: yes	In vitro gene mutation study in mammalian cells n: Chinese hamster ovary cells activation: with and without metabolic activation ECD Test Guideline 476 ative
Genotoxicity in vivo		: Test Type: Species: M Application Method: Of Result: neg GLP: yes	Micronucleus test ouse (male and female) Route: inhalation (gas) ECD Test Guideline 474 ative
		Test Type: Species: Ra Application Method: Of Result: Am GLP: yes	Micronucleus test at (male) Route: Intraperitoneal ECD Test Guideline 474 biguous results
Dicu	myl peroxide:		
Geno	toxicity in vitro	: Test Type: Metabolic a Method: Of Result: neg	reverse mutation assay activation: with and without metabolic activation ECD Test Guideline 471 ative
		Test Type: Test systen Metabolic a Method: Of Result: neg	In vitro cytogenicity study in mammalian cells n: Chinese hamster lung cells activation: with and without metabolic activation ECD Test Guideline 473 ative
		Test Type: Test systen Metabolic a	In vitro mammalian cell gene mutation test n: Chinese hamster lung fibroblasts activation: with and without metabolic activation

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Method: OECD Test Guideline 476 Result: negative

Carcinogenicity

May cause cancer.

Components:

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

Remarks	:	No data available
Cumyl hydroperoxide:		
Remarks	:	No data available

Cumene:	
Species Application Route Activity duration Result Symptoms	 Rat, male and female inhalation (vapour) 6 hrs carcinogenic effects adenocarcinoma, kidney tumors
Species Application Route Activity duration Result Symptoms	 Mouse, male and female inhalation (vapour) 6 hrs carcinogenic effects adenocarcinoma
Carcinogenicity - Assessment	: Sufficient evidence of carcinogenicity in animal experiments

Reproductive toxicity

Not classified based on available information.

Components:

Methyl ethyl ketone peroxide; Reaction mass of butane-2, 2-diyl dihydroperoxide and disec-butylhexaoxidane:

:	Species: Rat, male and female
	Application Route: Oral
	Dose: 0 25, 50, 75 milligram per kilogram
	General Toxicity - Parent: NOAEL: 50 mg/kg bw/day
	General Toxicity F1: NOAEL F1: 50 mg/kg bw/day
	Fertility: NOAEL Parent: 75 mg/kg bw/day
	:

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			Method: OECD To GLP: yes	est Guideline 421
Cume	ne:			
Effects	s on fertility	:	Species: Rat, mal Application Route General Toxicity - GLP: yes	e : inhalation (vapour) Parent: NOAEL: >= 1.200 ppm
Effects develo	s on foetal pment	:	Species: Rat, mal Application Route General Toxicity M Developmental To Method: OECD To GLP: yes	le and female : inhalation (vapour) Maternal: NOAEL: 100 ppm oxicity: NOAEL: > 1.200 ppm est Guideline 414
			Species: Rabbit, r Application Route General Toxicity N Developmental To Method: OECD To GLP: yes	male and female : inhalation (vapour) Maternal: LOAEL: 500 ppm oxicity: NOAEL: 2.300 ppm est Guideline 414
Dicum	vl peroxide:			
Effects develo	on foetal pment	:	Species: Rat General Toxicity M Developmental To Method: OECD To Remarks: Adverse	Maternal: NOAEL: 150 mg/kg bw/day oxicity: NOAEL: 150 mg/kg bw/day est Guideline 414 e developmental effects were observed
			Species: Rabbit General Toxicity M Developmental To Method: OECD To Remarks: No sign	Maternal: NOAEL: 50 mg/kg bw/day oxicity: NOAEL: 150 mg/kg bw/day est Guideline 414 iificant adverse effects were reported
Reproc Assess	ductive toxicity - sment	:	Clear evidence of animal experimen	adverse effects on development, based on ts.

STOT - single exposure

May cause respiratory irritation.

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Components:

Methyl ethyl ketone peroxide; Reaction mass of butane-2, 2-diyl dihydroperoxide and disec-butylhexaoxidane:

Remarks	:	Not classified due to data which are conclusive although insufficient for classification.

Cumene:

Exposure routes Assessment	:	Inhalation May cause respiratory irritation.	e respiratory irritation.	
Dicumyl peroxide:				

iyi p

Remarks	:	Not classified due to data which are conclusive although
		insufficient for classification.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Method

Methyl ethyl ketone perox sec-butylhexaoxidane:	ide;R	eaction mass of butane-2,2-diyl dihydroperoxide and di-
Assessment	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Cumyl hydroperoxide:		
Exposure routes	:	Inhalation
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Dicumyl peroxide:		
Remarks	:	Not classified due to data which are conclusive although insufficient for classification.
Repeated dose toxicity		
Components:		
Dicumyl peroxide:		
Species	:	Rat
NOAEL	:	80 mg/kg bw/day

: OECD Test Guideline 408

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Aspiration toxicity

Not classified based on available information.

Components:

Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and disec-butylhexaoxidane:

No aspiration toxicity classification

Cumene:

May be fatal if swallowed and enters airways.

Dimethyl phthalate:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

The substance/mixture does not contain components Assessment considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. **Further information** Product: Remarks May cause damage to organs through prolonged or repeated exposure. Remarks No further data available. • Components: Cumyl hydroperoxide: Remarks May cause damage to organs through prolonged or repeated exposure. Cumene:

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Remarks		: Solvents n	: Solvents may degrease the skin.		
Dimethyl phthalate: Remarks		: No further	data available.		

SECTION 12: Ecological information

12.1 Toxicity

:	LC50 (Fish): 12,7 mg/l Exposure time: 96 h Remarks: The value is calculated
:	EC50 (Daphnia (water flea)): 31 mg/l Exposure time: 48 h Remarks: The value is calculated
:	EC50 (algae): 4,6 mg/l Exposure time: 72 h Remarks: The value is calculated
;Re	eaction mass of butane-2,2-diyl dihydroperoxide and di-
:	LC50 (Poecilia reticulata (guppy)): 44,2 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
	NOEC (Poecilia reticulata (guppy)): 18 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
:	EC50 (Daphnia magna (Water flea)): 39 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202
	: ; ; R(

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			NOEC (Daphnia Exposure time: 2 Test Type: Immo Method: OECD GLP: yes	magna (Water flea)): 26,7 mg/l 24 h obilization Test Guideline 202
Tox plai	icity to algae/aquatic nts	:	ErC50 (Pseudok Exposure time: 7 Test Type: Grow Method: OECD GLP: yes	tirchneriella subcapitata (algae)): 5,6 mg/l 72 h /th inhibition Test Guideline 201
			NOEC (Pseudok Exposure time: 7 Test Type: Grow Method: OECD GLP: yes	kirchneriella subcapitata (algae)): 2,1 mg/l 72 h rth inhibition Test Guideline 201
То>	icity to microorganisms	:	EC50 (activated Exposure time: (Test Type: Resp Method: Domest GLP: yes	sludge): 48 mg/l),5 h irration inhibition tic OECD Guideline 209
			EC10 (activated Exposure time: (Test Type: Resp Method: Domest GLP: yes	sludge): 12 mg/l),5 h irration inhibition tic OECD Guideline 209
Cu	nvl hvdroperoxide:			
Tox	icity to fish	:	LC50 (Oncorhyn Exposure time: 9 Test Type: semi Method: OECD GLP: yes	ichus mykiss (rainbow trout)): 3,9 mg/l 96 h -static test Test Guideline 203
To× aqu	icity to daphnia and other atic invertebrates	:	NOEC (Daphnia End point: Immo Exposure time: 4 Test Type: static Method: OECD GLP: yes	(water flea)): 9,15 mg/l bilization 48 h test Test Guideline 202

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			EC50 (Daphnia (v End point: Immot Exposure time: 44 Test Type: static Method: OECD T GLP: yes	water flea)): 18,84 mg/l ilization 3 h test est Guideline 202
Toxicity plants	y to algae/aquatic	:	EC50 (Desmodes End point: Growth Exposure time: 77 Test Type: static Method: OECD T GLP: yes	emus subspicatus (green algae)): 3,1 mg/l n rate 2 h test est Guideline 201
			NOEC (Desmode End point: Growth Exposure time: 77 Test Type: static Method: OECD T GLP: yes	smus subspicatus (green algae)): 1,0 mg/l n rate 2 h test est Guideline 201
Toxicity	y to microorganisms	:	Toxicity Threshold Exposure time: 10 Test Type: Growt	d (EC3) (Pseudomonas putida): > 50 mg/l 5 h h inhibition
2-Pher	ylisopropanol:			
Toxicity	y to fish	:	LC50 (Fish): Rem	arks: No data available
Cumer	ne:			
Toxicity	y to fish	:	LC50 (Oncorhyno Exposure time: 90 Test Type: flow-th	hus mykiss (rainbow trout)): 4,8 mg/l 5 h nrough test
			LC50 (Cyprinodo Exposure time: 90 Test Type: flow-th	n variegatus (sheepshead minnow)): 4,7 mg/l 5 h nrough test
			NOEC (Fish): 0,3 Exposure time: 28 Remarks: The va using OECD Tool (CAESAR models	8 mg/l 3 d lue is given based on a SAR/AAR approach box, DEREK, VEGA QSAR models s), etc.
Toxicity aquatic	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): 2,14 mg/l 3 h

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			Test Type: static t	test
			GLP: yes	est Guideline 202
			EC50 (Mysidopsis Exposure time: 96 Test Type: static t Method: OECD To GLP: yes	s bahia (opossum shrimp)): 1,2 mg/l 5 h test est Guideline 202
Toxici plants	ty to algae/aquatic	:	EC50 (Desmodes Exposure time: 72 Test Type: static to Method: OECD To GLP: yes	emus subspicatus (green algae)): 2,01 mg/l 2 h test est Guideline 201
			NOEC (Desmode Exposure time: 72 Test Type: static to Method: OECD To GLP: yes	smus subspicatus (green algae)): 1,49 mg/l 2 h iest est Guideline 201
Toxici	ty to microorganisms	:	EC50 (activated s Exposure time: 3 Test Type: Respir Method: OECD To GLP: yes	ludge): > 2.000 mg/l h ration inhibition est Guideline 209
Toxici aquat (Chro	ity to daphnia and other ic invertebrates nic toxicity)	:	NOEC: 0,35 mg/l Exposure time: 21 Species: Daphnia Test Type: static t Method: OECD To GLP: yes	l d magna (Water flea) test est Guideline 211
Dicur	nyl peroxide:			
Toxici	ity to fish	:	LC50 (Oryzias lat Exposure time: 96 Test Type: semi-s Method: OECD To GLP: yes Remarks: No toxio	ipes (Japanese medaka)): 0,469 mg/l 5 h static test est Guideline 203 city at the limit of solubility
Toxici aquat	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 0,397 mg/l 3 h

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			Test Type: semi- Method: OECD T GLP: yes Remarks: No toxi	static test est Guideline 202 city at the limit of solubility
Toxic plant	city to algae/aquatic s	:	(Pseudokirchner time: 72 h Test Type: static Method: OECD T GLP: yes Remarks: No toxi	iella subcapitata (green algae)): Exposure test est Guideline 201 city at the limit of solubility
Τοχία	city to microorganisms	:	NOEC (activated Exposure time: 0 Test Type: static Method: OECD T GLP: yes	sludge): > 1.000 mg/l 5 h test est Guideline 209
Toxic aqua (Chro	city to daphnia and other tic invertebrates onic toxicity)	:	NOEC: 0,117 mg End point: reprod Exposure time: 2 Species: Daphnia Test Type: semi-s Method: OECD T GLP: yes	/l uction rate 1 d a magna (Water flea) static test est Guideline 211
Dime	ethyl ohthalate:			
Toxic	sity to fish	:	LC50 (Lepomis m Exposure time: 9	nacrochirus (Bluegill sunfish)): 420 mg/l 6 h
Toxic plant	sity to algae/aquatic s	:	EC10 (Desmodes mg/I Exposure time: 7 Test Type: Growt Method: OECD T	smus subspicatus (green algae)): 193,09 2 h h inhibition est Guideline 201
			ErC50 (Desmode mg/l Exposure time: 7/ Test Type: Growt Method: OECD T	smus subspicatus (green algae)): 259,76 2 h h inhibition est Guideline 201
Toxic toxic	city to fish (Chronic ity)	:	NOEC: 11 mg/l Exposure time: 1 Species: Oncorhy	02 d ynchus mykiss (rainbow trout)

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	Toxicity aquatic (Chroni	/ to daphnia and other invertebrates ic toxicity)	:	Test Type: flow-t Method: Other gu NOEC: 9,6 mg/l End point: reproc Exposure time: 2 Species: Daphnia Method: Other gu	hrough test uidelines luction rate 1 d a magna (Water flea) uidelines
	Ecotox Acute a	xicology Assessment aquatic toxicity	:	Harmful to aquat	ic life.
12.2	2 Persis	tence and degradabil	ity		
	<u>Compo</u>	onents:			
	Methyl sec-bu	ethyl ketone peroxid tylhexaoxidane:	e;R	eaction mass of	butane-2,2-diyl dihydroperoxide and di-
	Biodeg	radability	:	Result: Readily b Method: Closed I	iodegradable. Bottle test
	Cumyl Biodeg	hydroperoxide: radability	:	Result: Not readi	ly biodegradable.
	Cumer Biodeg	re: radability	:	Test Type: anaer Inoculum: activat Result: Not biode	obic ed sludge, non-adapted gradable
				Test Type: aerob Inoculum: Dome Result: Readily b	ic stic sewage, non-adapted iodegradable.
	Dicum	yl peroxide:	<u>.</u>	Test Turney Deed	, bis de sue de biliter
	Riodeg	radability	:	I est Type: Read Inoculum: Activa Concentration: 2 Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T GLP: yes	y biodegradability ted sludge, domestic, non-adapted 0 mg/l ly biodegradable. 44 % 8 d ² est Guideline 301F

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Dimethyl phthalate:

Biodegradability	:	Result: Readily biodegradable.
		Biodegradation: 93 - 98 %

12.3 Bioaccumulative potential

Components:

Methyl ethyl ketone peroxic sec-butylhexaoxidane:	de;R	eaction mass of butane-2,2-diyl dihydroperoxide and di-
Bioaccumulation	:	Bioconcentration factor (BCF): 10,3 Remarks: Not expected considering the low log Pow value.
Partition coefficient: n- octanol/water	:	log Pow: < 2,04 (25 °C) Method: OECD Test Guideline 117
Cumyl hydroperoxide:		
Bioaccumulation	:	Bioconcentration factor (BCF): < 1
Partition coefficient: n- octanol/water	:	Pow: 39,8 (20 °C)
Dicumyl peroxide:		
Bioaccumulation	:	Species: Cyprinus carpio (Carp) Exposure time: 56 d Temperature: 25 °C Concentration: 0,01 mg/l Bioconcentration factor (BCF): 137 - 1.470 Method: OECD Test Guideline 305C
Dimethyl phthalate:		
Bioaccumulation	:	Species: Fish Exposure time: 1 d Bioconcentration factor (BCF): 5,4
Partition coefficient: n- octanol/water	:	log Pow: 2,12
Mobility in soil		

No data available

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12.5 Results of PBT and vPvB assessment

	Product:		
Assessment :		:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
	Components:		
	Cumyl hydroperoxide:		
	Assessment	:	Not classified as PBT or vPvB
	Cumene:		
	Assessment	:	This substance is not considered to be a PBT (Persistent, Bioaccumulation, Toxic). This substance is not considered to be vPvB (very Persistent nor very Bioaccumulating)
	Dicumvl peroxide:		
	Assessment	:	Not classified as PBT or vPvB
12.6	Endocrine disrupting proper	ties	8
	Product:		The substance/mixture does not contain components
	Assessment	•	considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7	Other adverse effects		
	Product:		
	Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
	Components:		
	Cumyl hydroperoxide:		
	Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

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Cumer	ne:	:	An environmental	l hazard cannot be excluded in the event of
Additio	nal ecological		unprofessional ha	andling or disposal.
informa	ation		Toxic to aquatic li	fe with long lasting effects.
Dimeti	nyl phthalate:	:	An environmental	l hazard cannot be excluded in the event of
Additio	nal ecological		unprofessional ha	andling or disposal.
informa	ation		Harmful to aquati	c life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods		
Product	:	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 contents/container in accordance with local regulation.
		Waste, residues, etc. must be collected, stored and disposed of in tightly closed container labeled: "Contains a substance that is covered by the Danish health and safety regulation in terms of cancer risk."
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not burn, or use a cutting torch on, the empty drum. Due to the high risk of contamination recycling/recovery is not recommended. Follow all warnings even after the container is emptied.

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	UN 3105
RID	:	UN 3105
IMDG	:	UN 3105

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	ΙΑΤΑ		:	UN 3105	
14.2	2 UN pro	oper shipping name			
	ADR		:	ORGANIC PERO	XIDE TYPE D, LIQUID ne peroxide, Cumyl hydroperoxide)
	RID		:	ORGANIC PERO	XIDE TYPE D, LIQUID ne peroxide, Cumyl hydroperoxide)
	IMDG		:	ORGANIC PERO	XIDE TYPE D, LIQUID ne peroxide, Cumyl hydroperoxide)
	ΙΑΤΑ		:	Organic peroxide (Methyl ethyl keto	type D, liquid ne peroxide, Cumyl hydroperoxide)
14.3	Transp	oort hazard class(es)			
				Class	Subsidiary risks
	ADR		:	5.2	
	RID		:	5.2	
	IMDG		:	5.2	
	ΙΑΤΑ		:	5.2	HEAT
14.4	Packin	g group			
	ADR Packing Classifi Labels Tunnel	g group cation Code restriction code	:	Not assigned by r P1 5.2 (D)	egulation
	RID Packing Classifi Hazard Labels	g group cation Code Identification Number	: :	Not assigned by r P1 539 5.2	egulation
	IMDG Packing Labels EmS C	g group ode	:	Not assigned by r 5.2 F-J, S-R	egulation
	IATA (C Packing aircraft) Packing Labels	Cargo) g instruction (cargo) g group	:	570 Not assigned by r Organic Peroxides	egulation s, Keep Away From Heat

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IATA (Passenger)

• • • • • • • • • • • • • • • • • • •		
Labels	:	Organic Peroxides, Keep Away From Heat
Packing group	:	Not assigned by regulation
(passenger aircraft)		
Packing instruction	:	570

14.5 Environmental hazards

ADR Environmentally hazardous	:	no
RID Environmentally hazardous	:	no
IMDG Marine pollutant	:	no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 75, 3 If you intend to use this product as tattoo ink, please contact your vendor.
		Dicumyl peroxide (Number on list 30)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable

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Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export a import of dangerous chemicals	: Not applicable and
REACH - List of substances subject to authorisatio (Annex XIV)	n : Not applicable
Seveso III: Directive 2012/18/EU of the Pe European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

Other regulations:

When evaluating a workplace, measures must be taken to ensure that employees are not exposed to conditions that may pose a risk during pregnancy or breastfeeding (cf. The Danish Working Environment Authority's Executive Order on The Performance of Work)

The substance/mixture is subject to the provisions of : Cumene BEK nr. 1795 of 18/12/2015 (as amended) "Executive order on Measures to Protect Workers from the Risks related to Exposure to Carcinogenic Substances and Materials at Work". The work with this substance/mixture may pose a cancer risk.

The components of this proc TCSI	luc :	t are reported in the following inventories: On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	All components are listed on the inventory, regulatory obligations/restrictions apply
DSL	:	This product contains one or several components that are not on the Canadian DSL nor NDSL.
		Kayaset red
ENCS	:	On the inventory, or in compliance with the inventory

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ISHL		:	On the inventory,	or in compliance with the inventory
KECI		:	On the inventory,	or in compliance with the inventory
PICCS	6	:	On the inventory,	or in compliance with the inventory
IECS	0	:	On the inventory,	or in compliance with the inventory
NZIoC	>	:	Not in compliance	e with the inventory
TECI		:	Not in compliance	e with the inventory
15.2 Chem	nical safety assessme	nt		
Methy peroxi butan dihydr	I ethyl ketone ide;Reaction mass of e-2,2-diyl operoxide and di-sec-	:	A Chemical Safe substance.	y Assessment has been carried out for this
Cumy	l hydroperoxide	:	A Chemical Safe substance.	y Assessment has been carried out for this
2-Phe	nylisopropanol	:	A Chemical Safe substance.	y Assessment is not required for this
Cume	ne	:	No information av	vailable.
Dicum	nyl peroxide	:	A Chemical Safe substance.	y Assessment has been carried out for this

SECTION 16: Other information

Full text of H-Statements		
H226	:	Flammable liquid and vapour.
H240	:	Heating may cause an explosion.
H242	:	Heating may cause a fire.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H331	:	Toxic if inhaled.
H332	:	Harmful if inhaled.

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H335 H350 H360D H373		: May ca : May ca : May da : May ca exposu	ause respiratory irritation. ause cancer. amage the unborn child. ause damage to organs through prolonged or repeated are.
H411		: Toxic t	o aquatic life with long lasting effects.
Full te	Full text of other abbreviations		
Acute ⁻ Aquatic Asp. To Carc. Eye Da Eye Irri Flam. L Org. Pe Repr. Skin Co Skin Irr STOT STOT 2000/3 2006/1	Tox. c Chronic ox. am. it. iq. erox. orr. it. RE SE 9/EC 5/EC 64/EU	: Acute t : Long-te : Aspirat : Carcine : Seriou: : Eye irri : Flamm : Organi : Reproc : Skin co : Skin co : Skin irri : Specifi : Specifi : Europe list of ir	exoxicity erm (chronic) aquatic hazard ion hazard ogenicity s eye damage tation able liquids c peroxides ductive toxicity orrosion itation c target organ toxicity - repeated exposure c target organ toxicity - repeated exposure c target organ toxicity - single exposure c target orga
2017/1	831/EU	fourth l fourth l Europe	e. Commission Directive 2017/164/EU establishing a ist of indicative occupational exposure limit values e. Commission Directive 2019/1831/EU establishing a
DK OE 2000/3 2000/3 2006/1 2017/1 2017/1 2019/1 2019/1 DK OE DK OE	L 9/EC / TWA 9/EC / STEL 5/EC / TWA 64/EU / STEL 64/EU / TWA 831/EU / TWA 831/EU / STEL L / S L / GV	Expose Expose Expose Expose Expose Expose Expose Expose Expose	ark. Occupational Exposure Limit Values ark. Occupational Exposure Limits alue - eight hours erm exposure limit alue - eight hours erm exposure limit alue - eight hours alue - eight hours erm exposure limit ure period of 15 minutes erm exposure limit
DK OEL / L		: Ceiling	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada);

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ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information

 This data sheet contains changes from the previous version in section(s): Hazards identification Composition/information on ingredients Toxicological information

Classification of the mixture:

Classification procedure:

Org. Perox. D	H242
Acute Tox. 4	H302
Acute Tox. 4	H332
Acute Tox. 4	H312
Skin Corr. 1B	H314
Eye Dam. 1	H318
Carc. 1B	H350
STOT SE 3	H335

Based on product data or assessment Calculation method Calculation method Calculation method

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STOT RE 2	H373	Calculation method
Aquatic Chronic 3	H412	Calculation method

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

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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