### SAFETY DATA SHEET

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

## TRIGONOX 23-C75

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1.3	12.09.2023		Date of first issue: 05.03.2019

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

1.1 P	roduct identifier			
-	Trade name	:		TRIGONOX 23-C75
ι	UFI			74M2-G01J-900X-XV7M
1.2 R	elevant identified	l uses of the	SI	ubstance or mixture and uses advised against
Use of the : Substance/Mixture		:	Polymerization initiator	
1.3 D	etails of the supp	olier of the sa	afe	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 E	mergency teleph	one number		
	Emergency number	telephone :		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 Poison Centre: +385 1 2348 342

#### **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.				
Skin irritation, Category 2	H315: Causes skin irritation.				
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.				

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Aspira	tion hazard, Categor	y 1	H304: May be fatal if swallowed and enters airways.
Short- Categ	term (acute) aquatic ory 1	hazard,	H400: Very toxic to aquatic life.
Long-t Categ	term (chronic) aquatio ory 1	c hazard,	H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Danger

•

:

Hazard statements

- H242 Heating may cause a fire.H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

#### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original packaging.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection/ hearing protection.

#### **Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire: Use water spray, alcoholresistant foam, dry chemical or carbon dioxide to extinguish. P391 Collect spillage.

#### Storage:

P411 Store at temperatures not exceeding 0°C/ 32°F.

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#### Hazardous components which must be listed on the label:

tert-Butyl peroxyneodecanoate Isododecane

#### 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. EC-No. Index-No. Registration number	Classification REGULATION (EC) No 1272/2008	Concentration (% w/w)
tert-Butyl peroxyneodecanoate	26748-41-4 247-955-1 01-2119948628-22	Org. Perox. D; H242 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	74 - 76
Isododecane	13475-82-6 236-757-0 01-2119490725-29	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 4; H413 EUH066	24 - 26

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: 93685-81-5

For explanation of abbreviations see section 16.					
Remarks	:	The following CAS number is relevant for EU REACH: 13475-			
		82-6.			

#### The following substances have multiple CAS-number

Isododecane

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures General advice Move out of dangerous area. : Consult a physician. 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. If skin irritation persists, call a physician. Rinse with plenty of water. In case of eye contact : Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If swallowed Clean mouth with water and drink afterwards plenty of water. : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention. 4.2 Most important symptoms and effects, both acute and delayed Symptoms The symptoms and effects are as expected from the hazards : as shown in section 2. No specific product related symptoms are known. Risks May be fatal if swallowed and enters airways. : Causes skin irritation. May cause an allergic skin reaction.

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#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

media

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing	:	High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards	during :	CAUTION: reignition may occur. Supports combustion. Do not use a solid water stream as it may scatter and spread fire. Water spray may be ineffective unless used by experienced firefighters. Do not allow run-off from fire fighting to enter drains or water courses. Hazardous decomposition products formed under fire conditions.
Hazardous comb products	ustion :	Fire will produce smoke containing hazardous combustion products (see section 10).
<b>5.3 Advice for firefigl</b> Special protective for firefighters		In the event of fire, wear self-contained breathing apparatus.
Further informatic	on :	Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

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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 containment and cleaning up

Methods for cleaning up	<ul> <li>Soak up with inert absorbent material and dispose of as hazardous waste.</li> <li>Use only inert inorganic material such as vermiculite or perlite as absorbent.</li> <li>Keep mixture of absorbent material and spilled product wetted with water.</li> <li>Confinement must be avoided.</li> <li>Never return spills in original containers for re-use.</li> </ul>
	Never retain 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. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
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.

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				and heav soaps). D	ay from reducing agents (e.g. amines), acids, alkalies y metal compounds (e.g. accelerators, driers, metal o not cut or weld on or near this container even pty. Keep away from combustible material.
Hygiene measures		:	practice. smoke. V	accordance with good industrial hygiene and safety When using do not eat or drink. When using do not /ash hands before breaks and at the end of workday. ntaminated clothing before re-use.	
	Temper	ature class	:	<ul> <li>It is recommended to use electrical equipment of tempe group T3. However, autoignition can never be excluded</li> </ul>	
7.2 (	Conditio	ons for safe storage,	incl	uding any	<sup>v</sup> incompatibilities
		ments for storage nd containers	:	precautio comply w	nauthorized access. No smoking. Observe label ns. Electrical installations / working materials must ith the technological safety standards. Keep only in ontainer. Store away from other materials.
		information on stability	:	If produc	freezes or separates, contact the manufacturer.
				Maximun	storage temperature is for quality only.
				No decor	nposition if stored and applied as directed.
	Minimu tempera	m storage ature:	:	Avoid ter -25 °C	nperatures below:
	Maximu tempera	m storage ature:	:	-10 °C	
7.3 9	Specific	end use(s)			
_	Specific		:		ne technical guidelines for the use of this e/mixture.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Occupational exposure limits of decomposition products

ſ	Components	CAS-No.	Value type (Form	Control parameters	Basis
-					

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		of exposure)		
tert-Butanol	75-65-0	GVI	100 ppm	HR OEL
			308 mg/m3	
		STEL	150 ppm	HR OEL
			462 mg/m3	
Carbon dioxide	124-38-9	TWA	5.000 ppm	2006/15/EC
			9.000 mg/m3	
	Further information: Indicative			
		GVI	5.000 ppm	HR OEL
			9.000 mg/m3	
Further information: 2006/15/EU				

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

Substance name	End Use	Exposure routes	Potential health effects	Value
tert-Butyl peroxyneodecanoate	Workers	Inhalation	Acute systemic effects	2,1 mg/m3
	Workers	Inhalation	Long-term systemic effects	3 mg/m3

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

Substance name	Environmental Compartment Value	
tert-Butyl peroxyneodecanoate	Fresh water	0,0049 mg/l
	Marine water	0,00049 mg/l
	Intermittent water	0,0033 mg/l
	Sewage treatment plant	96,69 mg/l
	Fresh water sediment	2,19 mg/kg
	Marine sediment	0,219 mg/kg
	Soil	0,434 mg/kg

#### 8.2 Exposure controls

#### **Engineering measures**

Explosion proof ventilation recommended. Effective exhaust ventilation system

Personal protective equipment				
Eye/face protection	:	Tightly fitting safety goggles		
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

, 1	Physical state	an :	liquid
	Colour	:	colourless
	Odour	:	very faint
	Odour Threshold	:	No data available
	Freezing point	:	-20 °C
	Boiling point	:	Not applicable
	Upper explosion limit / Upper flammability limit	:	No data available
	Lower explosion limit / Lower flammability limit	:	No data available
	Flash point	:	Not applicable
			Above the SADT value
	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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				reaction and, un can be caused b	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.
		celerating position temperature	:	20 °C	
	рН		:	substance/mixtu	re is non-soluble (in water)
	Viscosii Visc	ty osity, dynamic	:	17 mPa.s (0 °C)	
	Visc	osity, kinematic	:	19,5 mm2/s (0 °	C)
	Solubili Wat	ty(ies) er solubility	:	immiscible	
	Solu	bility in other solvents	:	Solvent: organic miscible with mo	solvent st organic solvents
	Partition octanol	n coefficient: n- /water	:	No data availabl	e
	Vapour	pressure	:	No data availabl	e
	Relative	e density	:	0,88 (0 °C)	
	Relative	e vapour density	:	No data availabl	e
9.2 (	<b>Other in</b> Explosi	formation ves	:	Not explosive	

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Oxic	lizing properties	: Not appli	icable	
Flan	nmability (liquids)	: Decompo	osition products may be flammable.	
Eva	poration rate	: No data	available	
Activ	ve Oxygen Content	: 4,84 - 4,9	98 %	
Orga	anic peroxides	: 74 - 76 %	6	

### **SECTION 10: Stability and reactivity**

<ul> <li>10.1 Reactivity <ul> <li>Stable under normal condition</li> </ul> </li> <li>10.2 Chemical stability <ul> <li>Stable under recommended</li> </ul> </li> <li>10.3 Possibility of hazardous reactions</li> </ul>	storage conditions.
<b>10.4 Conditions to avoid</b> Conditions to avoid	: Confinement must be avoided. Heat, flames and sparks.
<b>10.5 Incompatible materials</b> Materials to avoid	<ul> <li>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</li> </ul>

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contact the supplier.

#### 10.6 Hazardous decomposition products

No decomposition if stored and Hazardous decomposition products	
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)	: 20 °C

#### **SECTION 11: Toxicological information**

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

	The mornation of hazard classes as defined in Regulation (LC) NO 1272/2000				
Acute toxicity Not classified due to lack o Components:	Not classified due to lack of data.				
tert-Butyl peroxyneodeca	inoate:				
Acute oral toxicity	: LD50 Oral (Rat, male and female): 10.776 mg/kg				
Acute inhalation toxicity	<ul> <li>LC50 (Rat, male and female): &gt; 37,5 mg/l Exposure time: 4 h Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity</li> </ul>				
Acute dermal toxicity	: LD50 Dermal (Rabbit, male and female): > 6.000 mg/kg				
<b>Isododecane:</b> Acute oral toxicity	: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401				

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Acute	inhalation toxicity	Exposu Test atr Method Assess inhalatio	Rat): > 6,1 mg/l re time: 4 h nosphere: vapour : OECD Test Guideline 403 ment: The substance or mixture has no acute on toxicity ss: Saturated vapour concentration			
		Exposu Test atr	Rat): > 5,6 mg/l re time: 4 h nosphere: aerosol : OECD Test Guideline 403			
Acute	e dermal toxicity	Method	Rabbit): > 3.160 mg/kg : OECD Test Guideline 402 ment: The substance or mixture has no acute dermal			
Skin	Skin corrosion/irritation					
Cause	es skin irritation.					
<u>Comp</u>	oonents:					
tert-B	ert-Butyl peroxyneodecanoate:					
Speci	es	: Rabbit				
•	sure time	: 4 h				
Metho	ssment	: Catego	ry∠ Test Guideline 404			
Resul			j to skin.			
Isodo	decane:					
Resul		: Repeate	ed exposure may cause skin dryness or cracking.			
Serio	Serious eye damage/eye irritation					
	assified due to lack of					
Com	oonents:					
tert-B	tert-Butyl peroxyneodecanoate:					
Speci	es ssment	: Rabbit : No eye	irritation irritation			

#### Isododecane:

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Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified due to lack of data.

#### Components:

tert-Butyl peroxyneodecanoate:						
Assessment :	May cause sensitisation by skin contact.					
Assessment :	Severe skin irritation May cause sensitisation by skin contact.					
Isododecane:						
Test Type :	Maximisation Test					
Species :	Guinea pig					
Method : Result :	OECD Test Guideline 406 Not sensitizing.					
nesult .	Not sensuzing.					
Germ cell mutagenicity						
Not classified due to lack of data						
Product:						
Germ cell mutagenicity- : Assessment	Based on available data, the classification criteria are not met.					
<u>Components:</u>						
tert-Butyl peroxyneodecanoate	::					
Genotoxicity in vitro :	Test Type: In vitro gene mutation test (CHO cells): Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative					
	Test Type: Ames test Test system: Salmonella typhimurium					

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		M	etabolic activation: with and without metabolic activation ethod: OECD Test Guideline 471 esult: Positive results in some in vitro tests.
Geno	toxicity in vivo	Sp St Ce Ap	est Type: In vivo micronucleus test becies: Mouse (male and female) rain: NMRI and DBA ell type: Bone marrow oplication Route: Intraperitoneal ethod: OECD Test Guideline 474 esult: negative
	i cell mutagenicity- ssment	: Ba	ased on available data, the classification criteria are not met.
Isodo	odecane:		
	toxicity in vitro	M	est Type: Chromosome aberration test in vitro ethod: OECD Test Guideline 473 esult: negative
		M	est Type: Ames test ethod: OECD Test Guideline 471 esult: negative
Geno	toxicity in vivo	Sr Ar M	est Type: Chromosome aberration test in vivo pecies: Rat oplication Route: inhalation (vapour) ethod: OECD Test Guideline 478 esult: negative
		Sr Ar M	est Type: Micronucleus test becies: Mouse oplication Route: Oral ethod: OECD Test Guideline 474 esult: negative
	i <b>nogenicity</b> lassified due to lack o	f data.	
	<b>uct:</b> nogenicity - ssment	: Ba	ased on available data, the classification criteria are not met.

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#### Components:

tert-Butyl peroxyneodecanoate:						
Remarks :	No human information is available.					
Carcinogenicity - : Assessment	Based on available data, the classification criteria are not met.					
Isododecane:						
Species:Application Route:Exposure time:Frequency of Treatment:NOAEC:Method:	Rat, female inhalation (vapour) 105w 5 days/week 1.100 mg/m3 OECD Test Guideline 453					
Species:Application Route:Exposure time:Frequency of Treatment:NOAEC:Method:	Rat, male inhalation (vapour) 105w 5 days/week 138 mg/m3 OECD Test Guideline 453					
<b>Reproductive toxicity</b> Not classified due to lack of data						
Product: Reproductive toxicity - : Assessment	Based on available data, the classification criteria are not met. not teratogenic if the exposure limit value is applied					
Components:						
tert-Butyl peroxyneodecanoate	e:					
Effects on fertility :	Test Type: Fertility/early embryonic development Species: Rat, male and female Application Route: Oral Dose: 60, 200, 600 mg/kg bw/day Duration of Single Treatment: 24 h Frequency of Treatment: 1 daily General Toxicity - Parent: NOAEL: 200 mg/kg bw/day General Toxicity F1: NOAEL: 60 mg/kg bw/day Method: OECD Test Guideline 422 Result: Animal testing did not show any effects on fertility. GLP: yes					

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ersion 3	Revision Date: 12.09.2023	HR / EN	Date of last issue: 01.09.2021 Date of first issue: 05.03.2019
	ts on foetal opment	Species: Application Dose: 60 Duration Frequence General Teratoge Method:	e: Fertility/early embryonic development Rat, male and female on Route: Oral , 200, 600 milligram per kilogram of Single Treatment: 24 h cy of Treatment: 1 daily Toxicity Maternal: NOAEL: 200 mg/kg bw/day nicity: NOAEL Mating/Fertility: 60 mg/kg bw/day OECD Test Guideline 422 nimal testing did not show any effects on fertility.
	oductive toxicity - ssment		n available data, the classification criteria are not met. ogenic if the exposure limit value is applied
Isodo	odecane:		
Effect	ts on fertility	Frequend General General	Rat on Route: Oral cy of Treatment: 7 days/week Toxicity - Parent: NOAEL: > 1.000 mg/kg bw/day Toxicity F1: NOAEL: > 1.000 mg/kg bw/day OECD Test Guideline 422
	ts on foetal opment	General Developr	Rat on Route: inhalation (vapour) Toxicity Maternal: NOAEL: > 5.220 mg/m3 nental Toxicity: NOAEL: > 5.220 mg/m3 OECD Test Guideline 414
STOT	「- single exposure		
Not c	lassified due to lack o	f data.	
<u>Com</u>	ponents:		
tert-E	Butyl peroxyneodeca	noate:	
Asses	ssment		stance or mixture is not classified as specific target

#### STOT - repeated exposure

Not classified due to lack of data.

organ toxicant, single exposure.

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#### **Components:**

tert-Butyl peroxyneodecanoate:					
Exposure routes Assessment		Ingestion The substance or mixture is not classified as specific target			
		organ toxicant, repeated exposure.			

#### Repeated dose toxicity

#### Components:

#### tert-Butyl peroxyneodecanoate:

Species		Rat, male and female 10 mg/kg bw/day
Application Route Method GLP	:	Oral OECD Test Guideline 408 ves
Remarks		Read-across from supporting substance (structural analogue or surrogate).

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Components:

#### tert-Butyl peroxyneodecanoate:

No aspiration toxicity classification

#### Isododecane:

May be fatal if swallowed and enters airways.

#### 11.2 Information on other hazards

#### Endocrine disrupting properties

#### Product:

Assessment

: 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.

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Further information		
<u>Product:</u> Remarks	:	Solvents may degrease the skin.
Remarks	:	No further data available.

#### **SECTION 12: Ecological information**

### 12.1 Toxicity

<b>Components</b>	
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tert-Butyl peroxyneodecanoate:							
Toxicity to fish :	LC50 (Danio rerio (zebra fish)): 0,33 mg/l Exposure time: 96 h Test Type: Fresh water Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes						
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 0,79 mg/l Exposure time: 48 h Test Type: Fresh water Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes						
Toxicity to algae/aquatic : plants	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,48 mg/l End point: EL50 Exposure time: 72 h Test Type: Growth inhibition Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes						
M-Factor (Acute aquatic : toxicity)	1						
Toxicity to microorganisms :	EC50 (activated sludge): 2.054 mg/l Exposure time: 3 h Test Type: Respiration inhibition Analytical monitoring: no Method: OECD Test Guideline 209						

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	aquatic	to daphnia and other invertebrates c toxicity)	:	GLP: yes NOEC: 0,049 mg/ End point: reprodu Exposure time: 21 Species: Daphnia Test Type: semi-s Method: OECD Te GLP: yes	uction rate d magna (Water flea) tatic test
	M-Facto toxicity)	or (Chronic aquatic	:	1	
	Isodod				
	Toxicity	r to fish	:	LL50 (Oncorhynch Exposure time: 96 Method: OECD Te	
				Exposure time: 96 Method: Other gu	
		to daphnia and other invertebrates	:	EL50 (Daphnia m Exposure time: 48 Method: OECD Te	
				Exposure time: 48 Method: Other gu	
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
				mg/l Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	EL50 (Pseudomo	nas putida): > 1,48 mg/l

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				e time: 5 h Other guidelines
Toxic toxici	ity to fish (Chronic ty)	:	Exposure	> 0,267 mg/l e time: 28 d Oncorhynchus mykiss (rainbow trout) QSAR
aquat	ity to daphnia and other tic invertebrates onic toxicity)	:	Exposure Species:	i,011 mg/l e time: 21 d Daphnia magna (Water flea) OECD Test Guideline 211
Ecote	oxicology Assessment			
Chroi	nic aquatic toxicity	:	May cau	se long lasting harmful effects to aquatic life.
12.2 Pers	istence and degradabil	ity		
Com	ponents:			
tert-E	Butyl peroxyneodecano	ate	:	
Biode	egradability	:	Inoculum Concent Result: N Biodegra Exposure	e: Closed Bottle test a: activated sludge ration: 2,1 mg/l lot readily biodegradable. dation: 26 % e time: 28 d OECD Test Guideline 301
-	ico-chemical vability	:	Remarks	: Readily eliminated from water
Isodo	odecane:			
Biode	egradability	:	Result: N	lot readily biodegradable.
12.3 Bioa	ccumulative potential			
Com	ponents:			
tert-E	Butyl peroxyneodecano	ate	:	
Bioac	cumulation	:	bioaccur	: This substance is not considered to be persistent nulating and toxic (PBT). stance is not considered to be very persistent and
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				very bioaccumula	ating (vPvB).
Partition coefficient: n- : octanol/water		:	log Pow: 5,4 (20	°C)	
12.4	Mobili	ty in soil			
		a available			
12.5 I	Result	s of PBT and vPvB a	sse	ssment	
F	Produc	<u>::</u>			
	Assess		to be either persistent, bioaccumu		nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
<u>c</u>	Compo	onents:			
t	tert-Bu	tyl peroxyneodecan	oate	:	
Assessment		:	This substance is bioaccumulating	a not considered to be persistent, and toxic (PBT) This substance is not very persistent and very bioaccumulating	
12.6 I	Endoc	rine disrupting prop	ertie	s	
<u>F</u>	Produc	<u>:t:</u>			
ļ	Assess	ment	:	considered to have to REACH Article	ixture does not contain components ve endocrine disrupting properties according 57(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at

#### 12.7 Other adverse effects

Product:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
mormation		unprofessional nanoling of disposal.

levels of 0.1% or higher.

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

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Produ	ct	courses or t Do not conta chemical or	should not be allowed to enter drains, water he soil. aminate ponds, waterways or ditches with used container. contents/container in accordance with local
Conta	minated packaging	Dispose of a Do not burn Due to the h recommend	ining contents. as unused product. , or use a cutting torch on, the empty drum. igh risk of contamination recycling/recovery is not ed. arnings even after the container is emptied.

### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADN	:	UN 3115
ADR	:	UN 3115
RID	:	UN 3115 Not permitted for transport
IMDG	:	UN 3115
ΙΑΤΑ	:	UN 3115 Not permitted for transport
14.2 UN proper shipping name		
ADN	:	ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-Butyl peroxyneodecanoate, 75%)
ADR	:	ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-Butyl peroxyneodecanoate, 75%)
RID	:	ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED Not permitted for transport
IMDG	:	ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-Butyl peroxyneodecanoate, 75%, tert-Butyl peroxyneodecanoate)

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ΙΑΤΑ		:	ORGANIC PE CONTROLLE Not permitted	
14.3 Tran	sport hazard class(es)	1		
			Class	Subsidiary risks
ADN		:	5.2	
ADR		:	5.2	
RID		:	Not permitted	for transport
IMDO	3	:	5.2	
ΙΑΤΑ	۱.	:	Not permitted	for transport
14.4 Pack	king group			
	ing group sification Code	:	Not assigned   P2 5.2	by regulation
Class Labe	ing group sification Code	:	Not assigned   P2 5.2 (D)	by regulation
RID		:	Not permitted	for transport
Labe	ing group	:	Not assigned   5.2 F-F, S-R	by regulation
ΙΑΤΑ	(Cargo)	:	Not permitted	for transport
ΙΑΤΑ	(Passenger)	:	Not permitted	for transport
14.5 Envi	ronmental hazards			
<b>ADN</b> Envir	onmentally hazardous	:	yes	
<b>ADR</b> Envir	onmentally hazardous	:	yes	
RID		:	Not permitted	for transport
<b>IMDO</b> Marir	<b>G</b> ne pollutant	:	yes	

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#### IATA (Passenger)

14.6 Special precautions for use	er	
IATA (Cargo) Environmentally hazardous	:	yes
Environmentally hazardous		yes

#### Further information for transport

Control temperature	:	0°C
Emergency temperature	:	10 °C
Remarks	:	The control temperature is the maximum temperature at which the formulation can be transported safely during a prolonged period of time.

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

:	Conditions of restriction for the following entries should be considered: Number on list 3
:	Not applicable

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REACH - List of substances subject to authorisa (Annex XIV)	ation	: Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

E1 ENVIRONMENTAL HAZARDS
--------------------------

The components of this pro TCSI	duo :	<b>ct are reported in the following inventories:</b> On the inventory, or in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
TECI	:	On the inventory, or in compliance with the inventory

#### 15.2 Chemical safety assessment

tert-Butyl	:	A Chemical Safety Assessment has been carried out for this
peroxyneodecanoate		substance.

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#### **SECTION 16: Other information**

Full text of H-Statements						
H226	:	Flammable liquid and vapour.				
H242	:	Heating may cause a fire.				
H304	:	May be fatal if swallowed and enters airways.				
H315	:	Causes skin irritation.				
H317	:	May cause an allergic skin reaction.				
H400	:	Very toxic to aquatic life.				
H410	:	Very toxic to aquatic life with long lasting effects.				
H413	:	May cause long lasting harmful effects to aquatic life.				
EUH066	:	Repeated exposure may cause skin dryness or cracking.				
Full text of other abbreviations						
Aquatic Acute	:	Short-term (acute) aquatic hazard				
Aquatic Chronic	:	Long-term (chronic) aquatic hazard				
Asp. Tox.	:	Aspiration hazard				
Flam. Liq.	:	Flammable liquids				
Org. Perox.	:	Organic peroxides				
Skin Irrit.	:	Skin irritation				
Skin Sens.	:	Skin sensitisation				
2006/15/EC	:	Europe. Indicative occupational exposure limit values				
HR OEL	:	Croatia. Regulations on limit values for exposure to hazardous				
		substances at work and on the biological limit values.				
2006/15/EC / TWA	÷	Limit Value - eight hours				
HR OEL / STEL	÷	Short term exposure limit				
HR OEL / GVI	÷	time weighted average				

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); 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

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- 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			
Classification of the mixture:			

Classification of the n	nixture:	Classification procedure:		
Org. Perox. D	H242	Based on product data or assessment		
Skin Irrit. 2	H315	Calculation method		
Skin Sens. 1	H317	Calculation method		
Asp. Tox. 1	H304	Calculation method		
Aquatic Acute 1	H400	Calculation method		
Aquatic Chronic 1	H410	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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