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

· 1.1 Product identifier

	DEDOVAN DIZOGE OA VZ
· Trade name:	PEROXAN PK295 S1-V
· 1.2 Relevant identified uses of the	ne substance or mixture and uses advised against
	No further relevant information available.
<ul> <li>Application of the substance /</li> </ul>	
the mixture	Reaction initiator
	For industrial use
· 1.3 Details of the supplier of the	safety data sheet
Manufacturer/Supplier:	PERGAN GmbH
	Hilfsstoffe für industrielle Prozesse
	Schlavenhorst 71
	D-46395 Bocholt
	Tel: +49 2871 9902-0
	Fax: +49 2871 9902-50
· Further information obtainable	
from:	Environment protection / Security of labour
	Qualified person: E-mail: msds@pergan.com
• 1.4 Emergency telephone	
number:	- Tel: +49 2871 9902-0

#### **SECTION 2: Hazards identification**

<ul> <li>2.1 Classification of the subst</li> <li>Classification according to R</li> </ul>		272/2008		
Flam. Liq. 3 H226 Flam	mable liquid and vap	bour.		
•	ing may cause a fire.			
-	cause an allergic ski			
	•			
	damage fertility.			
Asp. Tox. 1 H304 May	be fatal if swallowed	and enters airways.		
Aquatic Acute 1 H400 Very	toxic to aquatic life.			
Aquatic Chronic 2 H411 Toxi	to aquatic life with l	ong lasting effects.		
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008	The product is cla	assified and labelled according to the CLP regulation.		
· Hazard pictograms				
	GHS02 GHS07 C	GHS08 GHS09		
· Signal word	Danger			
Hazard-determining				
components of labelling:	tert-butyl 2-ethylp			
		4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
llement statements		-trimethylcyclohexylidene diperoxide		
· Hazard statements		H226 Flammable liquid and vapour. H242 Heating may cause a fire.		
		e an allergic skin reaction.		
	H360F May dama			
		tal if swallowed and enters airways.		
		to aquatic life with long lasting effects.		
· Precautionary statements	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
	P220	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).		
	P234	Keep only in original packaging.		
	P243	Take action to prevent static discharges.		
	P273	Avoid release to the environment.		
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing		
		protection.		
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.		
	P331	Do NOT induce vomiting.		
	P303+P361+P35	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
	P362+P364	Take off contaminated clothing and wash it before reuse.		
	P405	Store locked up.		
	P410	Protect from sunlight.		
	P411+P235	Store at temperatures not exceeding +40°C. Keep cool.		
	P420	Store separately.		
	P501	Dispose of contents/container in accordance with local/regional/national/international		
		regulations.		



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disrupting properties	The product does not contain substances with endocrine disrupting properties.
· Determination of endocrine	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· Results of PBT and vPvB as	;sessment
2.3 Other hazards	
Additional information:	Restricted to professional users.
Additional information	Contd. of page (Contd. of page

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

<ul> <li>Dangerous components:</li> </ul>		
CAS: 3006-82-4 EINECS: 221-110-7 Reg-No.: 01-2119498310-40	tert-butyl 2-ethylperoxyhexanoate Org. Perox. C, H242; Repr. 1B, H360F; Aquatic Chronic 2, H411; Skin Sens. 1, H317	30-40%
CAS: 93685-81-5 EINECS: 297-629-8 Reg-No.: 01-2119490725-29	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	30-40%
CAS: 6731-36-8 EINECS: 229-782-3 Reg-No.: 01-2119735694-30	di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide Org. Perox. B, H241	30-40%
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	I

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

4.1 Description of first aid measures General information:

· After inhalation:

· After skin contact:

- · After eye contact:
- After swallowing:
- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of any immediate medical attention and special treatment needed

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet. Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water. If symptoms persist consult doctor. No further relevant information available.

Take care of personal protection for the first aider.

No further relevant information available.

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

· 5.1 Extinguishing media	
Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
<ul> <li>For safety reasons unsuitable</li> </ul>	
extinguishing agents:	Water with full jet
<ul> <li>5.2 Special hazards arising from</li> </ul>	
the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded.
	Hydrocarbons, carbondioxide and -monoxid.
<ul> <li>5.3 Advice for firefighters</li> </ul>	
Protective equipment:	Do not inhale explosion gases or combustion gases.
<ul> <li>Additional information</li> </ul>	Cool endangered receptacles with water spray.
	Self-protection first!

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

 6.1 Personal precautions, protective equipment and emergency procedures Keep away from ignition sources. In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials.

Wear protective equipment. Keep unprotected persons away.

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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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	(Contd. of page 2)
• 6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.
	Do not allow to enter sewers/ surface or ground water.
<ul> <li>6.3 Methods and material for</li> </ul>	
containment and cleaning up:	Dispose contaminated material as waste according to section 13.
	Ensure adequate ventilation.
	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal.
	Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
<ul> <li>6.4 Reference to other sections</li> </ul>	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.
	In case of large spillage the environmental authority should be informed.

### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight. Open and handle receptacle with care. Prevent formation of aerosols. Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Do not refill residue into storage receptacles. Restrict the quantity stored at the work place. Before break and at the end of work hands should be thoroughly washed. Only use tools made of suitable materials (e. g. polyethylene or stainless steel). Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy- metal compounds and amines). While using do not eat, drink or smoke. Do not generate flames or sparks. Keep product and emptied container away from heat and sources of ignition. Avoid shock and friction. Take precautionary measures against static discharges.
	Do not smoke.
Information about fire - and	
explosion protection:	Protect from heat. Protect against electrostatic charges.
	Prevent impact and friction.
	Use explosion-proof apparatus / fittings and spark-proof tools.
	Fumes can combine with air to form an explosive mixture.
	Wear shoes with conductive soles.
	Formation of flammable or explosive gas/air-mixtures is possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
· 7.2 Conditions for safe storage, i	including any incompatibilities
Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
<ul> <li>Requirements to be met by storerooms and receptacles:</li> </ul>	Store only in the original receptacle.
	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
<ul> <li>Information about storage in one common storage facility;</li> </ul>	Do not store or park organic perovide together with beauty motel compounds and emines
one common storage facility:	Do not store or park organic peroxide together with heavy metal compounds and amines. Store away from foodstuffs, drinks and feeding stuffs.
· Further information about	, -,
storage conditions:	Keep container tightly sealed.
	Protect from heat and direct sunlight. Protect from contamination.
	Storage in a collecting room is required.
Recommended storage	
temperature (To maintain	max.: +25 °C
quality): Storage class:	5.2
	v.=

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7.3 Specific end use(s)	) No further relevant information available. (Contd. of p
SECTION 8: Exposu	re controls/personal protection
3.1 Control parameters Ingredients with limit that require monitorin	values
workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
DNELs	
3006-82-4 tert-butyl 2-e	
	erm System 5,6 mg/kg bw/day (Worker)
	erm System 9,8 mg/m3 (Worker)
	3,3,5-trimethylcyclohexylidene diperoxide
-	erm System 2 mg/kg bw/day (Worker)
nhalative DNEL Longte	erm System 1,4 mg/m3 (Worker)
PNECs	
3006-82-4 tert-butyl 2-e	ethylperoxyhexanoate
PNEC Marinewater sed	0,0622 mg/kg sed dw
NEC Freshwater	0,002 mg/l (AF 50)
NEC Freshwater sed	0,622 mg/kg sed dw
PNEC STP	0,64 mg/l (AF 100)
NEC Marinewater	0 mg/l (AF 500)
	3,3,5-trimethylcyclohexylidene diperoxide
NEC Marinewater sed	0,01 mg/kg sed dw (AF 500)
PNEC Freshwater sed	0,102 mg/kg sed dw (AF 50)
NEC Soil	5,29 mg/kg soil dw (AF 10)
PNEC STP	100 mg/l (AF 10)
Additional informatio	n: The lists valid during the making were used as basis.
3.2 Exposure controls Appropriate engineeri controls	
	measures, such as personal protective equipment
General protective an hygienic measures:	
nygienic measures.	
	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed
	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing
	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately.
	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid close or long term contact with the skin.
	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid close or long term contact with the skin. Do not eat, drink, smoke or sniff while working.
	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid close or long term contact with the skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks.
Respiratory protectio	<ul> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Avoid close or long term contact with the skin.</li> <li>Do not eat, drink, smoke or sniff while working.</li> <li>Use skin protection cream for skin protection.</li> <li>Be sure to clean skin thoroughly after work and before breaks.</li> <li>Not necessary if room is well-ventilated.</li> </ul>
Respiratory protectio	<ul> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Avoid close or long term contact with the skin.</li> <li>Do not eat, drink, smoke or sniff while working.</li> <li>Use skin protection cream for skin protection.</li> <li>Be sure to clean skin thoroughly after work and before breaks.</li> <li>Not necessary if room is well-ventilated.</li> <li>Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.</li> </ul>
	<ul> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Avoid close or long term contact with the skin.</li> <li>Do not eat, drink, smoke or sniff while working.</li> <li>Use skin protection cream for skin protection.</li> <li>Be sure to clean skin thoroughly after work and before breaks.</li> <li>Not necessary if room is well-ventilated.</li> <li>Filter A2</li> </ul>
	<ul> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Avoid close or long term contact with the skin.</li> <li>Do not eat, drink, smoke or sniff while working.</li> <li>Use skin protection cream for skin protection.</li> <li>Be sure to clean skin thoroughly after work and before breaks.</li> <li>Not necessary if room is well-ventilated.</li> <li>Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.</li> </ul>
	<ul> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Avoid close or long term contact with the skin.</li> <li>Do not eat, drink, smoke or sniff while working.</li> <li>Use skin protection cream for skin protection.</li> <li>Be sure to clean skin thoroughly after work and before breaks.</li> <li>Not necessary if room is well-ventilated.</li> <li>Filter A2</li> <li>Only use chemical-protective gloves with CE-labelling of category III.</li> <li>Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation</li> <li>Protective gloves</li> <li>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.</li> </ul>
Hand protection	<ul> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Avoid close or long term contact with the skin.</li> <li>Do not eat, drink, smoke or sniff while working.</li> <li>Use skin protection cream for skin protection.</li> <li>Be sure to clean skin thoroughly after work and before breaks.</li> <li>Not necessary if room is well-ventilated.</li> <li>Filter A2</li> <li>Only use chemical-protective gloves with CE-labelling of category III.</li> <li>Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation</li> <li>Protective gloves</li> <li>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.</li> <li>Butyl rubber, BR</li> <li>Fluorocarbon rubber (Viton)</li> <li>Nitrile rubber, NBR</li> </ul>
Hand protection	<ul> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Avoid close or long term contact with the skin.</li> <li>Do not eat, drink, smoke or sniff while working.</li> <li>Use skin protection cream for skin protection.</li> <li>Be sure to clean skin thoroughly after work and before breaks.</li> <li>Not necessary if room is well-ventilated.</li> <li>If the A2</li> <li>Only use chemical-protective gloves with CE-labelling of category III.</li> <li>Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation</li> <li>Protective gloves</li> <li>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.</li> <li>Butyl rubber, BR</li> <li>Fluorocarbon rubber (Viton)</li> <li>Nitrile rubber, NBR</li> <li>Neoprene</li> </ul>
• Respiratory protectio • Hand protection • Material of gloves • Penetration time of g material	<ul> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Avoid close or long term contact with the skin.</li> <li>Do not eat, drink, smoke or sniff while working.</li> <li>Use skin protection cream for skin protection.</li> <li>Be sure to clean skin thoroughly after work and before breaks.</li> <li>Not necessary if room is well-ventilated.</li> <li>If the A2</li> <li>Only use chemical-protective gloves with CE-labelling of category III.</li> <li>Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation</li> <li>Protective gloves</li> <li>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.</li> <li>Butyl rubber, BR</li> <li>Fluorocarbon rubber (Viton)</li> <li>Nitrile rubber, NBR</li> <li>Neoprene</li> </ul>
• Hand protection • Material of gloves • Penetration time of g material	<ul> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Avoid close or long term contact with the skin.</li> <li>Do not eat, drink, smoke or sniff while working.</li> <li>Use skin protection cream for skin protection.</li> <li>Be sure to clean skin thoroughly after work and before breaks.</li> <li>Not necessary if room is well-ventilated.</li> <li>If the A2</li> <li>Only use chemical-protective gloves with CE-labelling of category III.</li> <li>Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation</li> <li>Protective gloves</li> <li>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.</li> <li>Butyl rubber, BR</li> <li>Fluorocarbon rubber (Viton)</li> <li>Nitrile rubber, NBR</li> <li>Neoprene</li> </ul>
• Material of gloves	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid close or long term contact with the skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks. Not necessary if room is well-ventilated. Filter A2 Only use chemical-protective gloves with CE-labelling of category III. Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene glove The exact break trough time has to be found out by the manufacturer of the protective gloves and has

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· Body protection:



Protective work clothing

#### **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information · Colour: Colourless · Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: Not applicable. Boiling point or initial boiling point and boiling range Not applicable. · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: > SADT Decomposition temperature: +50 °C (SADT) · pH Not determined. · Viscosity: Kinematic viscosity Not determined. · Dynamic: Not determined · Solubility water: Undetermined. · Partition coefficient n-octanol/water (log value) not determined · Vapour pressure: Not determined. · Density and/or relative density · Density at 20 °C: 0,85 g/cm<sup>3</sup> · Relative density Not determined. Vapour density Not determined. 9.2 Other information No further relevant information available. · Appearance: Fluid · Form: · Important information on protection of health and environment, and on safety. - 4. . . . . . Product is not selfigniting

· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.
<ul> <li>Information with regard to physical hazard classes</li> </ul>	
Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
<ul> <li>Self-reactive substances and mixtures</li> </ul>	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
<ul> <li>Substances and mixtures, which emit flammable gases in</li> </ul>	
contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Heating may cause a fire.
Corrosive to metals	Void
<ul> <li>Desensitised explosives</li> </ul>	Void
Other safety characteristics	
· Active oxygen	5,8 - 6,1 %

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(Contd. of page 5) **SECTION 10: Stability and reactivity**  10.1 Reactivity No further relevant information available. 10.2 Chemical stability · Thermal decomposition / conditions to be avoided: SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous selfaccelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT. No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat. · 10.3 Possibility of hazardous reactions Self-accelerating decomposition at SADT. 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-metal compounds and amines). · 10.6 Hazardous decomposition Hydrocarbons, carbondioxide and -monoxid. products: No hazardous decomposition products if used and stored according to specifications. · Additional information: Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

and fine dia Demulation (EO) No. 4070/0000

### SECTION 11: Toxicological information

• 11.1 Infor Acute tox		hazard class	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.		
		levant for cla			
3006-82-4	tert-butyl	2-ethylperox	yhexanoate		
Oral	LD50	>10.000 mg/kg (rattus)			
Dermal	LD50	14.142-20.00	14.142-20.000 mg/kg (rabbit)		
Inhalative	LC50 / 4h	42,2 mg/l (ra	ittus)		
93685-81-	5 Hydroca	rbons, C4, 1,	3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
Oral	LD50	>5.000 mg/k	g (rattus)		
6731-36-8	di-tert-but	tyl 3,3,5-trime	ethylcyclohexylidene diperoxide		
Oral	LD50	>2.000 mg/k	g (rattus)		
Dermal	LD50	>2.000 mg/k	g (rattus)		
· Skin corr	osion/irrit	ation	Based on available data, the classification criteria are not met.		
	eye damag ory or skin	e/irritation	Based on available data, the classification criteria are not met.		
sensitisa	tion		May cause an allergic skin reaction.		
· Germ cel	l mutagen	icity	Based on available data, the classification criteria are not met.		
<ul> <li>Carcinog</li> </ul>			Based on available data, the classification criteria are not met.		
•	ctive toxic	•	May damage fertility.		
<ul> <li>STOT-single exposure</li> </ul>			Based on available data, the classification criteria are not met.		
	<ul> <li>STOT-repeated exposure</li> </ul>		Based on available data, the classification criteria are not met.		
· Aspiratio			May be fatal if swallowed and enters airways.		
		other hazard			
· Endocrin	e disruptii	ng properties	5		

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

None of the ingredients is listed.

· 12.1 Toxicity	
<ul> <li>Aquatic toxicity:</li> </ul>	
3006-82-4 tert-butyl 2-e	thylperoxyhexanoate
EC50 / 72h 0,44 mg/l (a	lga (Süsswasser))
LC50 / 96h 8,66 mg/l (p	oecilia reticulata)
EC50 / 48h 7,5 mg/l (da	phnia)
93685-81-5 Hydrocarbo	ons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
EC50 / 48h >0,04 mg/l (	(daphnia)
IC50 / 72h >0,04 mg/l	(algae)
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12.2 Persistence and degrada • Degree of elimination:	bility	
· Classification:		
3006-82-4 tert-butyl 2-ethylper	roxybexanoate	
Degradation (Readily biodegra	•	
<b>0</b> ( <b>) 0</b>		
•	, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
Degradation (Not readily biode		
6731-36-8 di-tert-butyl 3,3,5-tri	imethylcyclohexylidene diperoxide	
Degradation (Evidence for inhe	erent biodegradability.) (OECD 301 D)	
12.3 Bioaccumulative potentia	al	
Partition coefficient: nOctan		
3006-82-4 tert-butyl 2-ethylperc		4,79 (20°
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvB	3 assessment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REAC	H, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REAC	H, annex XIII.
12.6 Endocrine disrupting		
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects	ffects No further relevant information available.	
· Remark:	Very toxic for fish	
· Additional ecological information	ation:	
· General notes:	Also poisonous for fish and plankton in water bodies.	
	Very toxic for aquatic organisms	
	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water	
	Do not allow product to reach ground water, water course or sewage system.	
	Danger to drinking water if even small quantities leak into the ground.	

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

13.1 Waste treatment methods
 Recommendation



After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage

· Waste disposal key:

system. Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)number.

• Uncleaned packaging: • Recommendation:

This material and its container must be disposed of as hazardous waste.

14.1 UN number or ID number · ADR, IMDG	UN3115
14.2 UN proper shipping name · ADR · IMDG	UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-BUTYLPEROXY-2-ETHYLHEXANOATE, 1,1-DI-(ter BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLE (tert-BUTYLPEROXY-2-ETHYLHEXANOATE, 1,1-DI-(tert- BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE), MARINE POLLUTANT
14.3 Transport hazard class(es)	
ADR	
· Class	5.2 (P2) Organic peroxides.

Printing date 03.04.2024

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31 Version: 13 (replaces version 12)



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	(Contd. of page
·Label	5.2
·IMDG	
· Class · Label	5.2 Organic peroxides. 5.2
· IATA	
Class	Х
· Label	X
· 14.4 Packing group · ADR, IMDG	Void
14.5 Environmental hazards:	Product contains environmentally hazardous substances: tert-
	BUTYLPEROXY-2-ETHYLHEXANOATE
· Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Organic peroxides.
· Hazard identification number (Kemler code):	- D
· Stowage Category · Stowage Code	D SW1 Protected from sources of heat.
	SW3 Shall be transported under temperature control.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
14.7 Maritime transport in bulk according to IMO instrumen	<b>ts</b> Not applicable.
· Transport/Additional information:	
ADR	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	1
• Tunnel restriction code	D
· RID / GGVSEB:	no admission
·IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· IATA ○ Remarks:	no admission
· Control temperature:	+40 °C
· Emergency temperature:	+40 °C
Additional provisions for organic peroxides of Class 5.2	"Carriage in accordance with ADR 2.2.52.1.8."

### **SECTION 15: Regulatory information**

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

<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances</li> <li>ANNEX I</li> <li>Seveso category</li> </ul>	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E1 Hazardous to the Aquatic Environment
<ul> <li>Qualifying quantity (tonnes) for the application of lower-tier requirements</li> <li>Qualifying quantity (tonnes) for the application of upper-tier</li> </ul>	50 t
requirements REGULATION (EC) No	200 t
1907/2006 ANNEX XVII	Conditions of restriction: 3, 30, 40, 75



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MT —

### Trade name: PEROXAN PK295 S1-V

	(Contd. of pag
DIRECTIVE 2011/65/EU on the II	restriction of the use of certain hazardous substances in electrical and electronic equipment – Anno
None of the ingredients is listed.	
<b>REGULATION (EU) 2019/1148</b>	
	DSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPL	LOSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 of	on drug precursors
None of the ingredients is listed.	
<ul> <li>Regulation (EC) No 111/2005 I precursors</li> </ul>	aying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	
SECTION 16: Other informat	
not establish a legally valid contra	present knowledge. However, this shall not constitute a guarantee for any specific product features and sha actual relationship.
Department issuing SDS:	Environment protection / Security of labour
Contact:	Tel: +49 2871 9902-0
Version number of previous	E-mail: mail@pergan.com
version:	12
Abbreviations and acronyms:	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
	International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the Internationa
	Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association
	GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
	ELINCS: European List of Notified Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)
	PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
	Flam. Liq. 3: Flammable liquids – Category 3
	Org. Perox. B: Organic peroxides – Type B Org. Perox. C: Organic peroxides – Type C/D
	Org. Perox. D: Organic peroxides – Type C/D
	Skin Sens. 1: Skin sensitisation – Category 1 Repr. 1B: Reproductive toxicity – Category 1B
	Asp. Tox. 1: Aspiration hazard – Category 1
	Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

·\* Data compared to the previous version altered.