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

· 1.1 Product identifier

 Trade name: 1.2 Relevant identified uses of t Application of the substance / the mixture 	PEROXAN PK295 S1-V he substance or mixture and uses advised against No further relevant information available. Reaction initiator For industrial use
 1.3 Details of the supplier of the Manufacturer/Supplier: 	safety data sheet 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: 1.4 Emergency telephone number: 	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com - Tel: +49 2871 9902-0

SECTION 2: Hazards identification

2.1 Classification of the substa		4070/0000			
· Classification according to Re	•				
Flam. Liq. 3 H226 Flammable liquid and vapour.					
Org. Perox. D H242 Heating may cause a fire.					
Skin Sens. 1 H317 May cause an allergic skin reaction.					
Repr. 1B H360F May of	ay damage fertility.				
Asp. Tox. 1 H304 May I	be fatal if swallowe	d and enters airways.			
Aquatic Chronic 2 H411 Toxic	to aquatic life with	long lasting effects.			
2.2 Label elements					
 Labelling according to 					
Regulation (EC) No 1272/2008	The product is o	classified and labelled according to the GB CLP regulation.			
· Hazard pictograms					
	GHS02 GHS07	GHS08 GHS09			
· Signal word	Danger				
-	Danger				
· Hazard-determining	tort butul 2 othy	Increw hevenets			
components of labelling:		/lperoxyhexanoate C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated			
		5-trimethylcyclohexylidene diperoxide			
· Hazard statements		ble liquid and vapour.			
		may cause a fire.			
		use an allergic skin reaction.			
	H360F May dan	nage fertility.			
		fatal if swallowed and enters airways.			
· Precautionary statements	P210	aquatic life with long lasting effects. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.			
Frecautionary statements	1210	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 P280	Avoid release to the environment.			
	F200	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+P3	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with			
	Baaa Baaa	water [or shower].			
	P362+P364	Take off contaminated clothing and wash it before reuse.			
	P405	Store locked up.			
	P410 P411+P235	Protect from sunlight. Store at temperatures not exceeding +40°C. Keep cool.			
	P420	Store separately.			
	P501	Dispose of contents/container in accordance with local/regional/national/internationa			
		regulations.			
		(Contd. on pa G			

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 Additional information: 2.3 Other hazards 	Restricted to professional users.	51)
· Results of PBT and vPvB asses	ssment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.	

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 Dangerous components: 		
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.	

Take care of personal protection for the first aider.

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. No further relevant information available.

SECTION 5: Firefighting measures

 5.1 Extinguishing media Suitable extinguishing agents: For safety reasons unsuitable 	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
extinguishing agents:	Water with full jet
 5.2 Special hazards arising from 	-
the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
 5.3 Advice for firefighters 	
Protective equipment:	Do not inhale explosion gases or combustion gases.
· Additional information	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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· 6.2 Environmental precautions:	(Contd. of page 2) <u>Inform</u> respective authorities in case of seepage into water course or sewage system.
	Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for 	
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.
· 6.4 Reference to other sections	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

SECTION 7. Handling and st	lage	
· 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.	
· 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,		
· Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.	
· Requirements to be met by		
storerooms and receptacles:		
	Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/product.	
Information about storage in		
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	Keen container tightly cooled	
storage conditions:	Keep container tightly sealed. Protect from heat and direct sunlight. Protect from contamination.	
· Recommended storage		
temperature (To maintain		
quality):	max.: +25 °C	
· Control temperature:	+40 °C +45 °C	
• Emergency temperature:	+45 C (Contd. on page 4)	

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7.3 Specific end use(s)	(Contd. of pag No further relevant information available.
SECTION 8: Exposur	re controls/personal protection
3.1 Control parameters	5 · · · · · · · · · · · · · · · · · · ·
Ingredients with limit v	
that require monitoring	
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-et Dermal DNEL Longter	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 Longtei	erm System 1.4 mg/m3 (Worker)
PNECs	
8006-82-4 tert-butyl 2-et	thylperoxyhexanoate
NEC 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
	0.64 mg/l (AF 100)
	0 mg/l (AF 500)
	3,3,5-trimethylcyclohexylidene diperoxide
	0.01 mg/kg sed dw (AF 500)
	0.102 mg/kg sed dw (AF 50)
	5.29 mg/kg soil dw (AF 10)
Additional information	100 mg/l (AF 10) n: The lists valid during the making were used as basis.
	No further data; see section 7.
controls Individual protection n General protective an hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing
Individual protection n General protective an	nd The usual precautionary measures are to be adhered to when handling chemicals. 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.
Individual protection n General protective an	The usual precautionary measures are to be adhered to when handling chemicals. 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.
Individual protection n General protective an	nd The usual precautionary measures are to be adhered to when handling chemicals. 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.
Individual protection n General protective an	The usual precautionary measures are to be adhered to when handling chemicals. 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.
Individual protection n General protective an hygienic measures:	 The usual precautionary measures are to be adhered to when handling chemicals. 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. nt necessary if room is well-ventilated.
Individual protection n General protective an hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. 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. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
Individual protection n General protective an hygienic measures: Respiratory protection	Ind The usual precautionary measures are to be adhered to when handling chemicals. 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. Intercessary if room is well-ventilated. Immediately respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter A2 Only use chemical-protective gloves with CE-labelling of category III.
Individual protection n General protective an hygienic measures: Respiratory protection	Ind The usual precautionary measures are to be adhered to when handling chemicals. 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. In necessary if room is well-ventilated. Immediately remove all soiled exposure limit and when insufficiently ventilated. Immediately 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 a 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.
Individual protection n General protective an hygienic measures: Respiratory protection Hand protection	Ind The usual precautionary measures are to be adhered to when handling chemicals. 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. Inn: Not necessary if room is well-ventilated. Filter A2 Use suitable respiratory device when it exceed exposure limit and when insufficiently 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 the 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
Individual protection n General protective an hygienic measures: Respiratory protection Hand protection	Ind The usual precautionary measures are to be adhered to when handling chemicals. 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. Int Not necessary if room is well-ventilated. Image: Use suitable respiratory device when it exceed exposure limit and when insufficiently 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 t degradation Protective gloves 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
Individual protection n General protective an hygienic measures: Respiratory protection Hand protection	Ind The usual precautionary measures are to be adhered to when handling chemicals. 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. Immediately remove all soiled and constrained clothing wash before breaks. Immediately remove all soiled and contaminated clothing before breaks. Immediately remove all soiled and contaminated clothing before breaks. Immediately remove all soiled and contaminated clothing before breaks. Immediately remove all soiled and contaminated clothing. Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks. Immediated clothing Use suitable respiratory device when it exceed exposure limit and when insufficiently 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 t 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, NBR
Individual protection n General protective an hygienic measures: Respiratory protection Hand protection • Material of gloves	Ind The usual precautionary measures are to be adhered to when handling chemicals. 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. Int Not necessary if room is well-ventilated. Image: Use suitable respiratory device when it exceed exposure limit and when insufficiently 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 t degradation Protective gloves 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
Individual protection n General protective an hygienic measures: Respiratory protection Hand protection • Material of gloves	Ind The usual precautionary measures are to be adhered to when handling chemicals. 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. In: Not necessary if room is well-ventilated. Image: Use suitable respiratory device when it exceed exposure limit and when insufficiently 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 t 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 Plove The exact break trough time has to be found out by the manufacturer of the protective gloves and has to

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· Body protection:

and on safety. · Ignition temperature:

Explosive properties:



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/cm³ · 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,

Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Active oxygen	5.8 - 6.1 %
Other safety characteristics	
Desensitised explosives	Void
Corrosive to metals	Void
Organic peroxides	Heating may cause a fire.
Oxidising solids	Void
Oxidising liquids	Void
contact with water	Void
Substances and mixtures, which emit flammable gases in	
Self-heating substances and mixtures	Void
Pyrophoric solids	Void
Pyrophoric liquids	Void
Self-reactive substances and mixtures	Void
Flammable solids	Void
Flammable liquids	Flammable liquid and vapour.
Gases under pressure	Void
Oxidising gases	Void
Aerosols	Void
Flammable gases	Void
Explosives	Void
Information with regard to physical hazard classes	
Evaporation rate	Not determined.
Change in condition	
	mixtures are possible.

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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 products: Hydrocarbons, carbondioxide and -monoxid. 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.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
 Acute toxicity
 Based on available data, the classification criteria are not met.
 LD/LC50 values relevant for classification:

3006-82-4 tert-butyl 2-ethylperoxyhexanoate				
Oral	LD50	>10,000 mg	/kg (rattus)	
Dermal	LD50	14,142-20,000 mg/kg (rabbit)		
Inhalative	LC50 / 4h	42.2 mg/l (ra	attus)	
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-butyl 3,3,5-trimethylcyclohexylidene diperoxide				
Oral	LD50	>2,000 mg/k	g (rattus)	
Dermal	LD50	>2,000 mg/k	ig (rattus)	
· Skin corr	osion/irrit	ation	Based on available data, the classification criteria are not met.	
· Serious e	eye damag	e/irritation	Based on available data, the classification criteria are not met.	
 Respirato 				
sensitisa			May cause an allergic skin reaction.	
 Germ cel 		icity	Based on available data, the classification criteria are not met.	
· Carcinog			Based on available data, the classification criteria are not met.	
· Reproduce		•	May damage fertility.	
· STOT-sin	• •		Based on available data, the classification criteria are not met.	
· STOT-rep		osure	Based on available data, the classification criteria are not met.	
 Aspiratio 			May be fatal if swallowed and enters airways.	
· 11.2 Information on other hazards				
· Endocrine disrupting properties				
None of the ingredients is listed.				

SECTION 12: Ecological information

· 12.1 Toxicity			
· Aquatic toxicity:			
3006-82-4 tert-butyl 2-ethylperoxyhexanoate			
EC50 / 72h 0.44 mg/l (alga (Süsswasser))			
LC50 / 96h 8.66 mg/l (poecilia reticulata)			
EC50 / 48h 7.5 mg/l (daphnia)			
93685-81-5 Hydrocarbons, 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	oxvhexanoate	
Degradation (Readily biodegra	•	
	, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
Degradation (Not readily biode		
	methylcyclohexylidene diperoxide	
	erent biodegradability.) (OECD 301 D)	
12.3 Bioaccumulative potentia	al	
 Partition coefficient: nOctan 	ol/water: [Log Kow]	
3006-82-4 tert-butyl 2-ethylperc	xyhexanoate	4,79 (20°0
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvB	assessment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK R	EACH, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK R	EACH, annex XIII.
12.6 Endocrine disrupting		
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects	No further relevant information available.	
· Remark:	Very toxic for fish	
 Additional ecological information 		
· 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.

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·Label	5.2
·IMDG	
Class	5.2 Organic peroxides.
· Label	5.2
· IATA · Class	X
	X
14.4 Packing group	
· ADR, IMDG	Void
14.5 Environmental hazards:	Product contains environmentally hazardous substances: tert-
· Marine pollutant:	BUTYLPEROXY-2-ETHYLHEXÁNOATE 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):	
· Stowage Category · Stowage Code	D SW1 Protected from sources of heat.
Stowage Code	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	ts Not applicable.
· Transport/Additional information:	
ADR	
· Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0
	Not permitted as Excepted Quantity
· Transport category	1
Tunnel restriction code	D
· RID / GGVSEB:	no admission
IMDG	
· Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0
	Not permitted as Excepted Quantity
· IATA	•••••••••••••••••••••••••••••••••••••••
· Remarks:	no admission
· Control temperature:	+40 °C
· Emergency temperature:	+45 °C
· Additional provisions for organic peroxides of Class 5.2	"Carriage in accordance with ADR 2.2.52.1.8."

SECTION 15: Regulatory information

 $^{\cdot}$ 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ Poisons Act

F DISONS ACL	
 Regulated explosives precursors 	
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precursors	
None of the ingredients is listed.	
· Reportable poisons	
None of the ingredients is listed.	
	(Contd. on page 9)
	GB

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Version: 13 (replaces version 12)

•) C The Peroxide Company

Revision: 16.02.2023

GB —

Trade name: PEROXAN PK295 S1-V

	(Contd. of pag
Directive 2012/18/EU	
 Qualifying quantity (tonnes) fo the application of lower-tier 	
requirements	50 t
Qualifying quantity (tonnes) fo	r
the application of upper-tier	200.4
requirements	200 t restriction of the use of certain hazardous substances in electrical and electronic equipment – Ann
II	restriction of the use of certain hazardous substances in electrical and electronic equipment – Ann
None of the ingredients is listed.	
	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
• Annex II - REPORTABLE EXPL	OSIVES PRECURSORS
None of the ingredients is listed.	
 Regulation (EC) No 273/2004 o None of the ingredients is listed. 	n drug precursors
	aying down rules for the monitoring of trade between the Community and third countries in drug
precursors	
None of the ingredients is listed.	
National regulations:	
· Other regulations, limitations a	
· Please note:	Take care of the respective local regulations.
This information is based on our p	resent knowledge. However, this shall not constitute a guarantee for any specific product features and sha
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