

Version: 9 (replaces version 8)

Revision: 16.02.2023

The Peroxide Company

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

· 1.1 Product identifier

PEROXAN PK295 V-90

· Trade name:	PEROXAN PK295 V-90
 1.2 Relevant identified uses of the 	he substance or mixture and uses advised against No further relevant information available.
 Application of the substance / the mixture 	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: Hazarda idontifi	cation

SECTION 2: Hazards identification

• 2.1 Classification of the substar • Classification according to Reg Org. Perox. C H242 Heating may	gulation (EC) No 1272/2008
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms	The product is classified and labelled according to the CLP regulation.
· Signal word	Danger
 Hazard-determining components of labelling: Hazard statements Precautionary statements 	 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated H242 Heating may cause a fire. 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. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P401 Store in accordance with local/regional/national/international regulations. P410 Protect from sunlight. P411+P235 Store at temperatures not exceeding +30°C. Keep cool. P420 Store separately. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
 2.3 Other hazards Results of PBT and vPvB asses 	semant
 vPvB: Determination of endocrine- disrupting properties 	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 Dangerous components: 		
CAS: 6731-36-8	di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide	80-90%
EINECS: 229-782-3	Org. Perox. B, H241	
Reg-No.: 01-2119735694-30		
CAS: 93685-81-5	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	5-10%
EINECS: 297-629-8	Alternative CAS number: 13475-82-6	
Reg-No.: 01-2119490725-29	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	
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Additional information:	For the wording of the listed hazard phrases refer to section 16.	(Contd. of page 1
SECTION 4: First aid measure	es	
4.1 Description of first aid measu	ires	
General information:	Take care of personal protection for the first aider.	
After inhalation:	Take affected persons into fresh air and keep quiet.	
After skin contact:	Immediately remove contaminated clothing.	
After eye contact:	Rinse opened eye for several minutes under running water.	
After swallowing: 4.2 Most important symptoms	If symptoms persist consult doctor.	
and effects, both acute and		
delayed	No further relevant information available.	
4.3 Indication of any immediate		
medical attention and special		
treatment needed	No further relevant information available.	
5.2 Special hazards arising from the substance or mixture	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.	
5.3 Advice for firefighters		
5.3 Advice for firefighters Protective equipment:	Do not inhale explosion gases or combustion gases.	
5.3 Advice for firefighters		
5.3 Advice for firefighters Protective equipment:	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!	
5.3 Advice for firefighters Protective equipment: Additional information SECTION 6: Accidental releas 6.1 Personal precautions,	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!	
5.3 Advice for firefighters Protective equipment: Additional information SECTION 6: Accidental releas 6.1 Personal precautions, protective equipment and	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!	
5.3 Advice for firefighters Protective equipment: Additional information SECTION 6: Accidental releas 6.1 Personal precautions,	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first! se measures Remove persons from danger area. Keep away from ignition sources.	
5.3 Advice for firefighters Protective equipment: Additional information SECTION 6: Accidental releas 6.1 Personal precautions, protective equipment and	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first! se measures Remove persons from danger area. Keep away from ignition sources. In case of further temperature should be cooled with waterspray from a safe distance.	
5.3 Advice for firefighters Protective equipment: Additional information SECTION 6: Accidental releas 6.1 Personal precautions, protective equipment and	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first! Se measures Remove persons from danger area. 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.	
5.3 Advice for firefighters Protective equipment: Additional information SECTION 6: Accidental releas 6.1 Personal precautions, protective equipment and emergency procedures	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first! Se measures Remove persons from danger area. 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.	
5.3 Advice for firefighters Protective equipment: Additional information SECTION 6: Accidental releas 6.1 Personal precautions, protective equipment and	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first! Se measures Remove persons from danger area. 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.	
5.3 Advice for firefighters Protective equipment: Additional information SECTION 6: Accidental releas 6.1 Personal precautions, protective equipment and emergency procedures	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first! Se measures Remove persons from danger area. 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.	

· 6.3 Methods and material for containment and cleaning up: 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

 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.	
	Handle with care. Avoid jolting, friction and impact.	
	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.	
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	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 - 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 s	storage, including any incompatibilities
· Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
Requirements to be me	
storerooms and recept	tacles: Store only in the original receptacle. Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
· Information about stora	age in
one common storage f	
· Further information ab	Store away from foodstuffs, drinks and feeding stuffs.
storage conditions:	Protect from heat and direct sunlight.
eterage contaitioner	Protect from contamination.
	Store under lock and key and with access restricted to technical experts or their assistants only.
· Recommended storag	Storage in a collecting room is required.
temperature (To maint	
	max.: +30 °C
quality):	4.1A
Storage class:	
Storage class:	No further relevant information available.
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters	No further relevant information available.
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace:	No further relevant information available.
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs 6731-36-8 di-tert-butyl 3,	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs 6731-36-8 di-tert-butyl 3, Dermal DNEL Longterr	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide m System 2 mg/kg bw/day (Worker)
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs 6731-36-8 di-tert-butyl 3, Dermal DNEL Longterr Inhalative DNEL Longterr	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide
Storage class: Stora	No further relevant information available. e controls/personal protection alues at the monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide m System 2 mg/kg bw/day (Worker) m System 1,4 mg/m3 (Worker)
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs G731-36-8 di-tert-butyl 3, Dermal Inhalative DNEL Longterr PNECs G731-36-8 di-tert-butyl 3,	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide m System 2 mg/kg bw/day (Worker) 1,4 mg/m3 (Worker) 3,5-trimethylcyclohexylidene diperoxide
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs 6731-36-8 di-tert-butyl 3, Dermal DNEL Longterr Inhalative DNEL Longterr PNECs 6731-36-8 di-tert-butyl 3, PNEC Marinewater sed 0	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide m System 2 mg/kg bw/day (Worker) 1,4 mg/m3 (Worker) 3,5-trimethylcyclohexylidene diperoxide 0,01 mg/kg sed dw (AF 500)
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs 6731-36-8 di-tert-butyl 3, Dermal DNEL Longterr Inhalative DNEL Longterr PNECs 6731-36-8 di-tert-butyl 3, PNEC Marinewater sed 0 PNEC Freshwater sed 0	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide M System 2 mg/kg bw/day (Worker) 1,4 mg/m3 (Worker) 3,5-trimethylcyclohexylidene diperoxide 0,01 mg/kg sed dw (AF 500) 0,102 mg/kg sed dw (AF 50)
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs 6731-36-8 di-tert-butyl 3, Dermal DNEL Longterr Inhalative DNEL Longterr PNECs 6731-36-8 di-tert-butyl 3, PNEC Marinewater sed 0 PNEC Freshwater sed 0 PNEC Soil 5	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide m System 2 mg/kg bw/day (Worker) m System 2 mg/kg bw/day (Worker) 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)
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELS 6731-36-8 di-tert-butyl 3, Dermal DNEL Longterr Inhalative DNEL Longterr PNECS 6731-36-8 di-tert-butyl 3, PNEC Marinewater sed 0 PNEC Freshwater sed 0 PNEC Soil 5 PNEC STP 1	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide m System 2 mg/kg bw/day (Worker) 1,4 mg/m3 (Worker) 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) 100 mg/l (AF 10)
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs 6731-36-8 di-tert-butyl 3, Dermal DNEL Longterr Inhalative DNEL Longterr PNECs 6731-36-8 di-tert-butyl 3, PNEC Marinewater sed 0 PNEC Freshwater sed 0 PNEC Soil 5 PNEC STP 1	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide m System 2 mg/kg bw/day (Worker) m System 2 mg/kg bw/day (Worker) 1,4 mg/m3 (Worker) 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) 100 mg/l (AF 10)
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs 6731-36-8 di-tert-butyl 3, Dermal DNEL Longterr Inhalative DNEL Longterr PNECS 6731-36-8 di-tert-butyl 3, PNEC Marinewater sed 0 PNEC Freshwater sed 0 PNEC Soil 5 PNEC STP 1 Additional information: 8.2 Exposure controls	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide m System 2 mg/kg bw/day (Worker) n System 2 mg/kg bw/day (Worker) 1,4 mg/m3 (Worker) 3,5-trimethylcyclohexylidene diperoxide 0,01 mg/kg sed dw (AF 500) 0,02 mg/kg sed dw (AF 500) 0,02 mg/kg soil dw (AF 10) 00 mg/l (AF 10) : The lists valid during the making were used as basis.
Storage class: 7.3 Specific end use(s) SECTION 8: Exposure 8.1 Control parameters Ingredients with limit va that require monitoring workplace: DNELs 6731-36-8 di-tert-butyl 3, Dermal DNEL Longterr Inhalative DNEL Longterr PNECs 6731-36-8 di-tert-butyl 3, PNEC Marinewater sed 0 PNEC Freshwater sed 0 PNEC Soil 5 PNEC STP 1	No further relevant information available. e controls/personal protection alues at the The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 3,5-trimethylcyclohexylidene diperoxide m System 2 mg/kg bw/day (Worker) n System 2 mg/kg bw/day (Worker) 1,4 mg/m3 (Worker) 3,5-trimethylcyclohexylidene diperoxide 0,01 mg/kg sed dw (AF 500) 0,02 mg/kg sed dw (AF 500) 0,02 mg/kg soil dw (AF 10) 00 mg/l (AF 10) : The lists valid during the making were used as basis.

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

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· Individual protection measu	(Contd. of pages, such as personal protective equipment
General protective and	
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.
	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 protection: 	Not necessary if room is well-ventilated.
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
	Filter A2
· Hand protection	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
· Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of
5	quality and varies from manufacturer to manufacturer.
	Butyl rubber, BR
	Fluorocarbon rubber (Viton)
	Nitrile rubber, NBR
	Neoprene
Penetration time of glove	
material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to observed.
• Eye/face protection	Tightly sealed goggles
· Body protection:	Protective work clothing
SECTION 9: Physical and	chemical properties
9.1 Information on basic phys General Information	sical and chemical properties
· Colour:	Colourloop
· Colour:	Colourless
· Odour: · Odour threshold:	Characteristic
	Not determined.
Melting point/freezing point	
Boiling point or initial boilir	
Flammability	Not applicable.

Not determined.

Not determined.

+60 °C (SADT) Not determined.

Not determined.

Not determined.

Undetermined.

Not determined.

Not determined.

Not determined.

Fluid

No further relevant information available.

not determined Not determined.

> SADT

- · Lower and upper explosion limit
- · Lower:
- · Upper:
- Flash point:
- Decomposition temperature: · pH · Viscosity: · Kinematic viscosity
- · Dynamic:
- Solubility
- · water:
- · Partition coefficient n-octanol/water (log value)
- · Vapour pressure:
- · Density and/or relative density
- Density:
- Relative density

Vapour density

· 9.2 Other information

· Appearance:

· Form:

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Important information on protection of health and environment,	
and on safety.	
· Ignition temperature:	Product is not selfigniting.
Explosive properties:	Risk of explosion by shock, friction, fire or other sources of ignition.
Change in condition	
· Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
[·] Flammable liquids	Void
· Flammable solids	Void
 Self-reactive substances and mixtures 	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
 Self-heating substances and mixtures 	Void
Substances and mixtures, which emit flammable gases in	
contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Heating may cause a fire.
Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity · 10.2 Chemical stability · Thermal decomposition /	No further relevant information available.
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 self-accelerating 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: 6731-36-8 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide Oral LD50 >2.000 mg/kg (rattus) Dermal LD50 >2.000 mg/kg (rattus) 93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Oral LD50 >5.000 mg/kg (rattus) • Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Skin corrosion/irritation	Based on available data, the classification criteria are not met.
· Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin	

eeneue eje aannagemmaanen	
Respiratory or skin	
sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.

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Reproductive toxicity	Based on available data, the classification criteria are not met.
• STOT-single exposure	Based on available data, the classification criteria are not met.
• STOT-repeated exposure • Aspiration hazard	Based on available data, the classification criteria are not met.
11.2 Information on other haz	Based on available data, the classification criteria are not met.
Endocrine disrupting proper	
None of the ingredients is listed	l
SECTION 12: Ecological in	iformation
12.1 Toxicity	
· Aquatic toxicity:	
93685-81-5 Hydrocarbons, C4 EC50 / 48h >0,04 mg/l (daphni	I, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
IC50 / 72h >0,04 mg/l (algae)	
12.2 Persistence and degrada	ability
· Degree of elimination:	
· Classification:	
6731-36-8 di-tert-butyl 3,3,5-tr	imethylcyclohexylidene diperoxide
Degradation (Evidence for inh	erent biodegradability.) (OECD 301 D)
	I, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
Degradation (Not readily biode	
12.4 Mobility in soil	No further relevant information available.
12.5 Results of PBT and vPvE	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, 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 inform	ation:
General notes:	Very toxic for aquatic organisms
	Also poisonous for fish and plankton in water bodies.
	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.	
· Waste disposal key:	Must not be disposed together with household garbage. Do not allow product to reach sewage 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.	

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3103
· 14.2 UN proper shipping name · ADR	UN3103 ORGANIC PEROXIDE TYPE C, LIQUID (1,1-DI-(tert- BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE)
· IMDG, IATA	ORGANIC PERÓXIDE TYPE C, LIQUID (1,1-DI-(tert-BUTYLPEROXY)- 3,3,5-TRIMETHYLCYCLOHEXANE)
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· 14.3 Transport hazard class(es)	
· ADR	
52	
	5.2 (P1) Organic peroxides.
· Label	5.2 (17) organio porovidos. 5.2
· IMDG, IATA	
	5.2 Organic peroxides.
· Label	5.2 Organic peroxides. 5.2
14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
• 14.6 Special precautions for user	Warning: Organic peroxides.
 Hazard identification number (Kemler code): Stowage Category 	- D
· Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
14.7 Maritime transport in bulk according to IMO instr	ruments Not applicable.
· Transport/Additional information:	
ADR	
Limited quantities (LQ)	25 ml
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	1
· Tunnel restriction code	D
· RID / GGVSEB:	like ADR
· IMDG	
Limited quantities (LQ)	25 ml
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity

SECTION 15: Regulatory information

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

Directive 2012/18/EU Named dangerous substances ANNEX I	None of the ingredients is listed.		
· Seveso category	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES		
 Qualifying quantity (tonnes) for 			
the application of lower-tier			
requirements	50 t		
 Qualifying quantity (tonnes) for 			
the application of upper-tier			
requirements	200 t		
· REGULATION (EC) No			
1907/2006 ANNEX XVII	Conditions of restriction: 3		
· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II			
None of the ingredients is listed.			
	(Contd. on page 8)		

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IE —

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REGULATION (EU) 2019/1148 Regulation (EC) No 273/2004 on drug precursors None of the ingredients is listed. Regulation (EC) No 111/2005 louise down rules for the menitoring of trade between the Community and

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases	H226 Flammable liquid and vapour. H241 Heating may cause a fire or explosion. H304 May be fatal if swallowed and enters airways. H413 May cause long lasting harmful effects to aquatic life.
· Department issuing SDS: · Contact:	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
 Version number of previous 	
version:	8
 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) ICAO: International Civil Aviation Organisation
	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International 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
	Asp. Tox. 1: Aspiration hazard – Category 1
	Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
 * Data compared to the previous version altered. 	

