

Version: 11 (replaces version 10)

Revision: 14.02.2023

The Peroxide Company

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

· 1.1 Product identifier

ΡΕΡΟΧΑΝ ΔΡΥ

· Trade name:	PEROXAN APV
<ul> <li>1.2 Relevant identified uses of the</li> </ul>	he substance or mixture and uses advised against
· Application of the substance /	No further relevant information available.
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**

#### · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 H226 Flammable liquid and vapour. Flam. Liq. 3 Org. Perox. C H242 Heating may cause a fire. Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms

$\sim$	$\mathbf{\nabla}$	V	$\sim$	
GHS02 G	HS07	GHS08	GHS09	

· Signal word	Danger	
<ul> <li>Hazard-determining components of labelling:</li> </ul>	tert-pentyl peroxyp	vivalate , 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
· Hazard statements	H226 Flammable H242 Heating may H315 Causes skin	iquid and vapour. / cause a fire. / irritation.
	H304 May be fatal	an allergic skin reaction. if swallowed and enters airways. aquatic life with long lasting effects.
<ul> <li>Precautionary statements</li> </ul>	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	P220	smoking. 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 P280	Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P331 P303+P361+P353	Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
	P362+P364 P405	Take off contaminated clothing and wash it before reuse. Store locked up.
	P410	Protect from sunlight.
	P411+P235 P420	Store at temperatures not exceeding +10°C. Keep cool. Store separately.
	P420 P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
		(Contd. on page 2)

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· 2.3 Other hazards	(Contd. of page 1)
· Results of PBT and vPvB asse	semant
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
vPvB:	0
	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
<ul> <li>Determination of endocrine-</li> </ul>	
disrupting properties	The product does not contain substances with endocrine disrupting properties.

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

#### 3.2 Mixtures

Dangerous components:		
CAS: 29240-17-3	tert-pentyl peroxypivalate	70-80%
EINECS: 249-530-6 Reg-No.: 01-2120763801-54	Org. Perox. C, H242; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	
CAS: 93685-81-5 EINECS: 297-629-8	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6	20-25%
Reg-No.: 01-2119490725-29	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	-
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	

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

4.1 Description of first aid measures · General information:

· After inhalation:

· After skin contact:

· After eye contact:

After swallowing:



Take care of personal protection for the first aider.

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.

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

4.2 Most important symptoms and effects, both acute and

No further relevant information available.

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

• 5.1 Extinguishing media

extinguishing agents:

the substance or mixture

5.3 Advice for firefighters · Protective equipment:

· Additional information

• Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. · For safety reasons unsuitable Water with full jet 5.2 Special hazards arising from

Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.

Do not inhale explosion gases or combustion gases. 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.

After exceeding the emergency temperature must be diluted with a suitable desentisation agent to < 10 %. 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.

· 6.2 Environmental precautions:



Do not allow to enter sewers/ surface or ground water.

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	(Contd. of page 2)
• 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.
<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 receptacles tightly sealed.
nananig	Keep away from heat and direct sunlight.
	Ensure good ventilation/exhaustion at the workplace.
	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.
	Use only in well ventilated areas.
	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).
	The product must be preserved, stored and transported continously cool.
	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-
	metal compounds and amines).
	Avoid contact with skin and eyes.
	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.
	bo not smoke.
<ul> <li>Information about fire - and</li> </ul>	
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,	including any incompatibilities
· Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
· Requirements to be met by	r ay attention to the special requirements of your local autonanes for storing dangerous goods.
storerooms and receptacles:	Store only in the original receptacle.
storerooms and receptacies.	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.
one common storage radinty.	Store away from foodstuffs, drinks and feeding stuffs.
• Further information about	
storage conditions:	Keep container tightly sealed.
storage contaitions.	Protect from heat and direct sunlight.
	Protect from contamination.
	Storage in a collecting room is required.
· Recommended storage	ctorage in a concount provintion required.
temperature (To maintain	
quality):	max.: -10 °C
· Storage class:	5.2
otorage class.	(Contd. on page 4)
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7.3 Specific end use(s)	(Contd. of pa No further relevant information available.
SECTION 8: Exposu	re controls/personal protection
8.1 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	
9240-17-3 tert-pentyl	peroxypivalate
Dermal DNEL Longte	rm System 0,75 mg/kg bw/day (Worker)
nhalative DNEL Longte	rm System 2,64 mg/m3 (Worker)
PNECs	
9240-17-3 tert-pentyl	peroxypivalate
	0,0062 mg/kg sed dw (-)
NEC Freshwater	0,0052 mg/l (AF 10)
	0,062 mg/kg sed dw (-)
PNEC Soil	0,0093 mg/kg soil dw (-)
PNEC STP	3 mg/l (AF 10)
NEC Marinewater	0,00052 mg/l (AF 100)
Additional informatio	
General protective ar	
hygienic measures: Respiratory protectio	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 inhale gases / fumes / aerosols. 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. <b>n:</b> In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated
	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 inhale gases / fumes / aerosols. 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 case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Is 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 degradation
Respiratory protectio	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 inhale gases / fumes / aerosols. 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 case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. I 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 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 Filuorocarbon rubber (Viton) Nitrile rubber, NBR
Respiratory protectio Hand protection	<ul> <li>The usual precautionary measures are to be adhered to when handling chemicals.</li> <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>Do not inhale gases / fumes / aerosols.</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>n: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.</li> <li>Wise suitable respiratory device when it exceed exposure limit and when insufficiently ventilated 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> <li>Neoprene</li> </ul>
Respiratory protectio Hand protection	<ul> <li>The usual precautionary measures are to be adhered to when handling chemicals.</li> <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>Do not inhale gases / fumes / aerosols.</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>n: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.</li> <li>Wise suitable respiratory device when it exceed exposure limit and when insufficiently ventilated 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> <li>Neoprene</li> </ul>
Respiratory protection Hand protection • Material of gloves • Penetration time of g material	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 inhale gases / fumes / aerosols. 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 case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. 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
Respiratory protection Hand protection • Material of gloves	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 inhale gases / furmes / aerosols. 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 case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. 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 Jove The exact break trough time has to be found out by the manufacturer of the protective gloves and has to

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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.
••	> SADT
Flash point:	
Decomposition temperature:	+25 °C (SADT)
pH	Not determined.
Viscosity:	<b></b>
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:	0,86 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
2 Other information	No further relevant information available.
.2 Other information Appearance:	
••	Fluid
· Form:	
Important information on protection of health and environm	ient,
and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour
• • • • • •	mixtures are possible.
Solvent content:	
· VOC (EC)	214,8 g/l
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	Flammable liquid and vapour.
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
Other safety characteristics	
· Active oxygen	6.3 - 6.5 %

# **SECTION 10: Stability and reactivity**

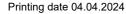
· 10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No further relevant information available.

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-(Contd. on page 6)



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	(Contd. of page 5) 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.
<ul> <li>10.3 Possibility of hazardous</li> </ul>	
reactions	Self-accelerating decomposition at SADT.
<ul> <li>10.4 Conditions to avoid</li> </ul>	No further relevant information available.
<ul> <li>10.5 Incompatible materials:</li> </ul>	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
<ul> <li>10.6 Hazardous decomposition</li> </ul>	
products:	Hydrocarbons, carbondioxide and -monoxid.
• Additional information:	No hazardous decomposition products if used and stored according to specifications. 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 Based on available data, the classification criteria are not met. · Acute toxicity · LD/LC50 values relevant for classification: 29240-17-3 tert-pentyl peroxypivalate Oral LD50 4.270 mg/kg (rattus) Dermal LD50 >2.000 mg/kg (rabbit) 93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated LD50 >5.000 mg/kg (rattus) Oral Skin corrosion/irritation Causes skin irritation. · Serious eye damage/irritation Based on available data, the classification criteria are not met. · Respiratory or skin May cause an allergic skin reaction. sensitisation · Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. · 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 Based on available data, the classification criteria are not met. Aspiration hazard 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:	
29240-17-3 tert-pentyl peroxypivalate	
LC50 / 96h   100 mg/l (fish)	
EC50 / 48h 56,4 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)	
12.2 Persistence and degradability	
· Degree of elimination:	
· Classification:	
29240-17-3 tert-pentyl peroxypivalate	
Degradation (Evidence for inherent biodegradability.) (OECD 301 D)	
93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
Degradation (Not readily biodegradable)	
12.3 Bioaccumulative potential	
· Partition coefficient: nOctanol/water: [Log Kow]	
29240-17-3 tert-pentyl peroxypivalate	3,3 (30°C)
12.4 Mobility in soil No further relevant information available.	
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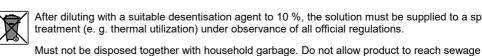


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PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
12.6 Endocrine disrupting	-
properties	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	No further relevant information available.
Additional ecological information	ation:
General notes:	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.

· 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:

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**

<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG</li> </ul>	UN3113
· 14.2 UN proper shipping name · ADR · IMDG	UN3113 ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT
· 14.3 Transport hazard class(es)	
ADR	
· Class	5.2 (P2) Organic peroxides.
· Label	5.2
Class	5.2 Organic peroxides.
·Label	5.2
	Y .
· Class · Label	X X
	<u>л</u>
· 14.4 Packing group · ADR, IMDG	Void
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: tert-AMYL PEROXYPIVALATE
· Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Organic peroxides.
<ul> <li>Hazard identification number (Kemler code):</li> <li>Stowage Category</li> </ul>	- D
Slowage Galegory	Contd. on page 8

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· Stowage Code	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	instruments Not applicable.
· Transport/Additional information:	
· ADR	
<ul> <li>Limited quantities (LQ)</li> </ul>	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
<ul> <li>Transport category</li> </ul>	1
Tunnel restriction code	D
· RID / GGVSEB:	no admission
·IMDG	
<ul> <li>Limited quantities (LQ)</li> </ul>	0
Excepted quantities (ÉQ)	Code: E0
	Not permitted as Excepted Quantity
· Remarks:	no admission
· Control temperature:	+10 °C
· Emergency temperature:	+15 °C

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

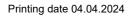
· 15.1 Safety, health and environm	nental regulations/legislation specific for the substance or mixture
<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances</li> <li>ANNEX I</li> <li>Seveso category</li> </ul>	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E1 Hazardous to the Aquatic Environment
<ul> <li>Qualifying quantity (tonnes) for the application of lower-tier</li> </ul>	r ·
requirements · Qualifying quantity (tonnes) for the application of upper-tier	50 t r
requirements REGULATION (EC) No	200 t
1907/2006 ANNEX XVII	Conditions of restriction: 3 estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
II	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
Annex I - RESTRICTED EXPLO	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 or	n drug precursors
None of the ingredients is listed.	
<ul> <li>Regulation (EC) No 111/2005 la precursors</li> </ul>	ying down rules for the monitoring of trade between the Community and third countries in drug
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.

<ul> <li>Department issuing SDS:</li> </ul>	Environment protection / Security of labour
Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
· Version number of previous	
version:	10

Version: 11 (replaces version 10)





Revision: 14.02.2023

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# Trade name: **PEROXAN APV**

	(Contd. of page 8
<ul> <li>Abbreviations and acronyms:</li> </ul>	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 International
	Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
	INTA: 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) VOC: Volatile Organic Compounds (USA, EU)
	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
	VPUB: very Persistent and very Bioaccumulative
	Flam. Lig. 3: Flammable liquids – Category 3
	Org. Perox. C: Organic peroxides – Type C/D
	Skin Irrit, 2: Skin corrosion/irritation – Category 2
	Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B
	Asp. Tox. 1: Aspiration hazard – Category 1
	Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
	Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
	Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
<ul> <li>* Data compared to the previous version altered.</li> </ul>	