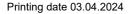
\_

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



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

· 1.1 Product identifier

**PEROXAN PPV** 

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

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

## • 2.1 Classification of the substance or mixture

1	Classification according to Regulation (EC) No 1272/2008		
	Flam. Liq. 3	H226 Flammable liquid and vapour.	
	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.	
	STOT SE 3	H335 May cause respiratory irritation.	
	Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.	
	Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.	

# 2.2 Label elements Labelling according to

· Hazard pictograms

**Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

	$\langle \mathbf{i} \rangle$	¥2
$\nabla$	$\sim$	$\sim$

	GHS02 GHS07 GHS08 GHS09
· Signal word	Danger
<ul> <li>Hazard-determining components of labelling:</li> </ul>	tert-butyl peroxypivalate 2,2,4,6,6-pentamethylheptane
· Hazard statements	H226 Elammable liquid and van

nazaru-ueternining		
components of labelling:	tert-butyl peroxypi	valate
	2,2,4,6,6-pentame	ethylheptane
<ul> <li>Hazard statements</li> </ul>	H226 Flammable	liquid and vapour.
	H242 Heating may	
	H315 Causes skin	
	H317 May cause a	an allergic skin reaction.
		respiratory irritation.
		l if swallowed and enters airways.
		latic life with long lasting effects.
· Precautionary statements	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P220	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and
		accelerators (e. g. heavy metal compounds and amines).
	P234	Keep only in original packaging.
	P243	Take action to prevent static discharges.
	P264	Wash thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
		protection.
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P331	Do NOT induce vomiting.
	P303+P361+P353	B IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
		water [or shower].
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P405	Store locked up.
	P410	Protect from sunlight.
	P411+P235	Store at temperatures not exceeding 0°C. Keep cool.
		(Contd. on page 2)

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		(Contd. of page 1)
P	420	Store separately.
Р	501	Dispose of contents/container in accordance with local/regional/national/international regulations.
<sup>·</sup> 2.3 Other hazards		•
<ul> <li>Results of PRT and vPvR assess</li> </ul>	nont	

Results of PBT and vPvB assessment

```
      • 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: 927-07-1	tert-butyl peroxypivalate	70-80%
EINECS: 213-147-2 Reg-No.: 01-2119961356-32	Org. Perox. C, H242; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	-
 CAS: 13475-82-6	2,2,4,6,6-pentamethylheptane	20-25%
EINECS: 236-757-0	Alternative CAS number: 93685-81-5	
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

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 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**

<ul> <li>6.1 Personal precautions, protective equipment and</li> </ul>			
emergency procedures	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.		
· 6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.		
	Do not allow to enter sewers/ surface or ground water.		
		(0 )	<b>~</b> `

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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.
	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
· 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	Julage
• 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.
	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.
	Do not sinoke.
<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.
<ul> <li>7.2 Conditions for safe storage,</li> <li>Storage:</li> </ul>	
· Requirements to be met by	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
storerooms and receptacles:	Store only in the original receptacle.
	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.
· Further information about	Store away from foodstuffs, drinks and feeding stuffs.
storage conditions:	Keep container tightly sealed.
eterage contaitener	Protect from heat and direct sunlight.
	Protect from contamination.
	Store under lock and key and with access restricted to technical experts or their assistants only.
Recommended storage	
temperature (To maintain	
quality):	-155 °C
<ul> <li>Control temperature:</li> <li>Emergency temperature:</li> </ul>	0 °C +10 °C
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7.3 Specific end use(s)	(Contd. of No further relevant information available.
SECTION 8: Exposu	re controls/personal protection
3.1 Control parameters Ingredients with limit that require monitorin workplace:	values g at the The product does not contain any relevant quantities of materials with critical values that have to be
DNELs	monitored at the workplace.
	an minalata
027-07-1 tert-butyl pero Dermal DNEL Longte	rrm System 1.6 mg/kg bw/day (Worker)
	rm System 2.8 mg/m3 (Worker)
PNECs	
27-07-1 tert-butyl perc	0.011 mg/kg sed dw (-)
PNEC Marinewater sed	
PNEC Freshwater sed	0.014 mg/l (AF 100) 0.106 mg/kg sed dw (-)
PNEC Preshwater sed	0.013 mg/kg soil dw
NEC STP	10,000 mg/l (-)
NEC Marinewater	0.001 mg/l (AF 1.000)
Additional informatio	
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.
Respiratory protectio	Avoid close or long term contact with the skin. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks.
Respiratory protectio Hand protection	Avoid close or long term contact with the skin. Avoid contact with the eyes and 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.
	<ul> <li>Avoid close or long term contact with the skin.</li> <li>Avoid contact with the eyes and 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>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>Wite suitable respiratory device when it exceed exposure limit and when insufficiently ventila 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 a 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 quality and varies from manufacturer to manufacturer.</li> <li>Butyl rubber, BR</li> <li>Fluorocarbon rubber (Viton)</li> <li>Nitrile rubber, NBR</li> </ul>
Hand protection	<ul> <li>Avoid close or long term contact with the skin.</li> <li>Avoid contact with the eyes and 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>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>Is esuitable respiratory device when it exceed exposure limit and when insufficiently ventila 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 a 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 quality and varies from manufacturer to manufacturer.</li> <li>Butyl rubber, BR</li> <li>Fluorocarbon rubber (Viton)</li> <li>Nitrile rubber, NBR</li> <li>Neoprene</li> </ul>
Hand protection	<ul> <li>Avoid close or long term contact with the skin.</li> <li>Avoid contact with the eyes and 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>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>Is esuitable respiratory device when it exceed exposure limit and when insufficiently ventila 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 a 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 quality and varies from manufacturer to manufacturer.</li> <li>Butyl rubber, BR</li> <li>Fluorocarbon rubber (Viton)</li> <li>Nitrile rubber, NBR</li> <li>Neoprene</li> </ul>
Hand protection • Material of gloves • Penetration time of g material	Avoid close or long term contact with the skin. Avoid contact with the eyes and 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 self-contained respiratory protective device. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventila 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 a degradation Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
Hand protection • Material of gloves • Penetration time of g	Avoid close or long term contact with the skin. Avoid contact with the eyes and 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 use suitable respiratory device when it exceed exposure limit and when insufficiently ventila 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 a degradation Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene Slove The exact break trough time has to be found out by the manufacturer of the protective gloves and ha

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SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties	
General Information	
· Colour:	colourless - yellowish
Odour:	Characteristic
· Odour threshold:	Not determined.
Melting point/freezing point:	< -25 °C
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Not applicable.
· Lower and upper explosion limit	Not applicable.
· Lower:	Not determined.
Upper:	Not determined.
Flash point:	> SADT
<ul> <li>Decomposition temperature:</li> </ul>	+20 °C (SADT)
· pH	Not determined.
· Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	2 mPas
Solubility	
· water:	Undetermined.
· Partition coefficient n-octanol/water (log value)	not determined
· Vapour pressure:	Not determined.
· Density and/or relative density	Not dotorninou.
· Density at 20 °C:	$0.99  a/am^3$
	0.88 g/cm <sup>3</sup>
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	No further relevant information available.
Appearance:	
· Form:	Fluid
Important information on protection of health and environm	
and on safety.	ong -
· 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	Flammable liquid and vapour.
· Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
<ul> <li>Self-heating substances and mixtures</li> </ul>	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	VOIU
· Active oxygen	6.8 - 7.0 %

### **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 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.

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	(Contd. of page 5) 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.
<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).
· 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

· Acute to	kicity		Based on available data, the classification criteria are not met.	
· LD/LC50	) values re	levant for cla	assification:	
927-07-1 t	ert-butyl p	eroxypivalate	e	
Oral	LD50	4,169 mg/kg	(rattus)	
Dermal	LD50	2,500 mg/kg	(rabbit)	
Inhalative	LC50 / 4h	7.79 mg/l (rattus)		
13475-82-	6 2,2,4,6,6	-pentamethyl	lheptane	
Oral	LD50	>5,000 mg/kg	g (rattus)	
· Skin corr	rosion/irrit	ation	Causes skin irritation.	
· Serious e	eye damag	e/irritation	Based on available data, the classification criteria are not met.	
<ul> <li>Respirate</li> </ul>	Respiratory or skin			
sensitisa	tion		May cause an allergic skin reaction.	
· Germ cel	ll mutagen	icity	Based on available data, the classification criteria are not met.	
<ul> <li>Carcinog</li> </ul>	jenicity		Based on available data, the classification criteria are not met.	
· Reprodu	ctive toxic	ity	Based on available data, the classification criteria are not met.	
· STOT-sir	ngle expos	ure	May cause respiratory irritation.	
· STOT-rep	peated exp	osure	Based on available data, the classification criteria are not met.	
<ul> <li>Aspiration hazard</li> </ul>			May be fatal if swallowed and enters airways.	
11.2 Information on other hazards				
· Endocrine disrupting properties				
None of th	e ingredien	nts is listed.		

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

· 12.1 Toxicity		
• Aquatic toxicity:		
927-07-1 tert-butyl p	eroxypivalate	
LC50 / 96h 29 mg/l (	brachydanio rerio)	
13475-82-6 2,2,4,6,6	pentamethylheptane	
EC50 / 48h >0.04 mg	g/l (daphnia)	
IC50 / 72h >0.04 m	۶/۱ (algae)	
· 12.2 Persistence and · Degree of elimination		
<ul> <li>Classification:</li> </ul>		
927-07-1 tert-butyl p	eroxypivalate	
Degradation (Evider	nce for inherent biodegradability.) (OECD 301 D)	
13475-82-6 2,2,4,6,6	pentamethylheptane	
Degradation (Not rea	adily biodegradable)	
12.3 Bioaccumulativ	e potential	
· Partition coefficier	nt: nOctanol/water: [Log Kow]	
927-07-1 tert-butyl peroxypivalate 3,17 (25°C		3,17 (25°C)
13475-82-6 2,2,4,6,6	-pentamethylheptane	5,94 - 6,16
12.4 Mobility in soil		
	and vPvB assessment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, anr (Cor	nex XIII. ntd. on page 7

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	(Contd. of page 6)
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.
<ul> <li>12.6 Endocrine disrupting</li> </ul>	
properties	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	No further relevant information available.
· Remark:	Harmful to fish
· Additional ecological information	ation:
General notes:	Harmful to 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.

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

UN3113
UN3113 ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-BUTYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-BUTYL PEROXYPIVALATE), MARINE POLLUTANT
5.2 (P2) Organic peroxides. 5.2
5.2 Organic peroxides. 5.2
X X
Void
Product contains environmentally hazardous substances: tert-BUTYL PEROXYPIVALATE
Yes Symbol (fish and tree)
Symbol (fish and tree)
Warning: Organic peroxides. - D
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· Stowage Code	SW1 Protected from sources of heat.
	SW3 Shall be transported under temperature control.
<ul> <li>Segregation Code</li> </ul>	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
$\cdot$ 14.7 Maritime transport in bulk according to IMO	instruments Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
,	Not permitted as Excepted Quantity
· Transport category	1
• Tunnel restriction code	D
· RID / GGVSEB:	no admission
·IMDG	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
·IATA	
· Remarks:	no admission
· Control temperature:	0°C
· Emergency temperature:	+10 °C

## SECTION 15: Regulatory information

<ul> <li>Regulated explosives precurs</li> </ul>	sors
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precu	rsors
None of the ingredients is listed.	
· Reportable poisons	
None of the ingredients is listed.	
Directive 2012/18/EU • Qualifying quantity (tonnes) f the application of lower-tier requirements • Qualifying quantity (tonnes) f the application of upper-tier requirements	50 t for 200 t
DIRECTIVE 2011/65/EU on the	restriction of the use of certain hazardous substances in electrical and electronic equipment – Anne
None of the ingredients is listed.	
· Annex I - RESTRICTED EXPL	OSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXP	LOSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004	on drug precursors
None of the ingredients is listed.	
<ul> <li>Regulation (EC) No 111/2005 precursors</li> </ul>	laying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	

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## Trade name: **PEROXAN PPV**

#### National regulations:

· Other regulations, limitations and prohibitive regulations

Please note: Take care of the respective local regulations.

#### **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.

<sup>.</sup> Relevant phrases	<ul> <li>H226 Flammable liquid and vapour.</li> <li>H242 Heating may cause a fire.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H335 May cause respiratory irritation.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H413 May cause long lasting harmful effects to aquatic life.</li> </ul>
<ul> <li>Department issuing SDS:</li> </ul>	Environment protection / Security of labour
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
<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 IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent DBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Org. Percox. C: organic peroxides – Type C/D Skin Irrit. 2: Skin corrosion/irritation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1
	Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
* Data compared to the previous version altered.	