

Version: 11 (replaces version 10)

Revision: 14.02.2023

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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
 1.2 Relevant identified uses of the 	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

	>	$\langle \! \! \rangle \!$	
GHS02 GH	S07	GHS08	GHS09

· Signal word	Danger	
 Hazard-determining components of labelling: 	tert-pentyl peroxy Hydrocarbons, C	ypivalate 4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
· Hazard statements	H242 Heating ma H315 Causes ski H317 May cause H304 May be fata	
· Precautionary statements	P210 P220 P234 P243 P280 P301+P310 P331 P303+P361+P35 P362+P364 P405 P410 P411+P235	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines). Keep only in original packaging. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting. 33 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Take off contaminated clothing and wash it before reuse. Store locked up. Protect from sunlight. Store at temperatures not exceeding +10°C. Keep cool.
	P420 P501	Store separately. Dispose of contents/container in accordance with local/regional/national/international regulations. (Contd. on page 2)

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0.2 Other hazarda	(Contd. of page 1)
· 2.3 Other hazards	
 Results of PBT and vPvB asse 	
· 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.
 Determination of endocrine- 	-
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	Org. Perox. C, H242; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens.	
Reg-No.: 01-2120763801-54	1B, H317	
CAS: 93685-81-5	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	20-25%
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]
 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:

4.2 Most important symptoms and effects, both acute and

· After inhalation:

· After skin contact:

· After eye contact:

After swallowing:

treatment needed



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.

delayed No further r 4.3 Indication of any immediate medical attention and special

No further relevant information available.

SECTION 5: Firefighting measures

[•] 5.1 Extinguishing media

 Suitable extinguishing agents:
 For safety reasons unsuitable extinguishing agents:
 5.2 Special hazards arising from the substance or mixture
 5.3 Advice for firefighters
 Protective equipment:
 CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 Water with full jet
 Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
 Do not inhale explosion gases or combustion gases.

• Protective equipment: • Additional information

Cool endangered receptacles with water spray.

Self-protection first!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

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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• 6.3 Methods and material for	
containment and cleaning up:	Dispose contaminated material as waste according to section 13.
	Ensure adequate ventilation.
	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal.
	Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
 6.4 Reference to other sections 	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.
	In case of large spillage the environmental authority should be informed.

SECTION 7: Handling and storage

• 7.1 Precautions for safe	
handling	Keep receptacles tightly sealed.
U	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.
	Take precautionary measures against static discharges.
	bo not smoke.
	Do not onnoke.
 Information about fire - and 	
explosion protection:	Protect from heat.
	Protect against electrostatic charges.
	Prevent impact and friction.
	Use explosion-proof apparatus / fittings and spark-proof tools.
	Furnes 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	
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.
	Store away from foodstuffs, drinks and feeding stuffs.
• Further information about	
storage conditions:	Keep container tightly sealed.
v	Protect from heat and direct sunlight.
	Protect from contamination.
	Storage in a collecting room is required.
Recommended storage	
temperature (To maintain	
quality):	max.: -10 °C
· Storage class:	5.2
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7.3 Specific end use(s)) No further relevant information available. (Contd. of pa
SECTION 8: Exposu	ire controls/personal protection
3.1 Control parameters	S
Ingredients with limit	values
that require monitorin	
workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
DNELs	
29240-17-3 tert-pentyl	neroxynivalate
	erm System 0,75 mg/kg bw/day (Worker)
-	erm System 2,64 mg/m3 (Worker)
PNECs	
29240-17-3 tert-pentyl	neroxynivalate
	0,0062 mg/kg sed dw (-)
PNEC Freshwater	0,0052 mg/l (AF 10)
PNEC Freshwater sed	0,062 mg/kg sed dw (-)
PNEC Soil	0,0093 mg/kg soil dw (-)
PNEC STP	3 mg/l (AF 10)
PNEC Marinewater	0,00052 mg/l (AF 100)
Additional informatio	
controls Individual protection i General protective ar 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 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.
Respiratory protectio	 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. We suitable respiratory device when it exceed exposure limit and when insufficiently ventilated
	 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
Respiratory protectio	 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
Respiratory protectio Hand protection	 Keep away from foodstuffs, beverages and feed. Immediately remove all solied 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. We 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 Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
Respiratory protectio Hand protection	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. Image: Construct and the glove material on consideration of the penetration times, rates of diffusion and degradation Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene glove
Respiratory protection Hand protection • Material of gloves • Penetration time of g material	 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. With a 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 Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
Respiratory protection Hand protection • Material of gloves	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. 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. Image: Construct and the glove material on consideration of the penetration times, rates of diffusion and degradation Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene glove

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t is not explosive. However, formation of explosive air/vapour
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able liquid and vapour.
g may cause a fire.

SECTION 10: Stability and reactivity

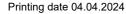
· 10.1 Reactivity

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-



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	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 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.	i
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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.

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

· 14.1 UN number or ID number · ADR, IMDG	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
· Class · Label	X X
	A
· 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.
Hazard identification number (Kemler code):	-
· Stowage Category	D (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.
\cdot 14.7 Maritime transport in bulk according to IMC	Dinstruments 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:	+10 °C
· Emergency temperature:	+15 °C

SECTION 15: Regulatory information

15.1 Safety, health and environ	mental 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 E1 Hazardous to the Aquatic Environment	
· Qualifying quantity (tonnes) for		
the application of lower-tier		
requirements	50 t	
 Qualifying quantity (tonnes) for 	ЭГ	
the application of upper-tier		
requirements	200 t	
 REGULATION (EC) No 1907/2006 ANNEX XVII 	Conditions of restriction: 3	
II	restriction 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	OSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	
None of the ingredients is listed.		
· Annex II - REPORTABLE EXPI	LOSIVES PRECURSORS	
None of the ingredients is listed.		
· Regulation (EC) No 273/2004 (on drug precursors	
None of the ingredients is listed.		
 Regulation (EC) No 111/2005 I precursors 	aying down rules for the monitoring of trade between the Community and third countries in drug	
None of the ingredients is listed.		

SECTION 16: Other 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. H242 Heating may cause a fire. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation.

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	(Contd. of page 8) H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. 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	
* Dete composed to the	10 RD: 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 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) LO50: Lethal concentration, 50 percent DDSL: Derived No-Effect Concentration (REACH) LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Fiam. Lig. 3: Flammable liquids – Category 3 Org. Perox. C: Organic peroxides – Type C/D Skin Irrit. 2: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Acute 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
* Data compared to the previous version altered.	Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4