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Safety data sheet The Peroxide Company according to 1907/2006/EC, Article 31 Printing date 03.02.2023 Version: 8 (replaces version 7) SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier PEROXAN APV-70 · Trade name: 1.2 Relevant identified uses of the 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 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 Environment protection / Security of labour from: Competent person: * Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com * Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com * Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com Security of labour 1.4 Emergency telephone - Tel: +49 2871 9902-0 number: **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. D 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 GB CLP regulation. Hazard pictograms GHS02 GHS07 GHS08 GHS09

Signal word

· Hazard-determining

Danger

components of labelling:	tert-pentyl peroxyp	pivalate
	Hydrocarbons, C4	, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
 Hazard statements 	H226 Flammable	liquid and vapour.
	H242 Heating may	/ cause a fire.
	H315 Causes skin	irritation.
	H317 May cause a	an allergic skin reaction.
	H304 May be fatal	if swallowed and enters airways.
	H410 Very toxic to	aquatic 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.
	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	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 +10°C. Keep cool.
		(Contd. on page 2)

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	P420	Do not mix with peroxide-accelerators or reducing agents.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards		-
· Results of PBT and vPv	B assessment	
· PBT:	The substar	nces in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.
· vPvB:		nces 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: 29240-17-3 EINECS: 249-530-6 Reg-No.: 01-2120763801-54	tert-pentyl peroxypivalate Org. Perox. C, H242; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317	70-80%
CAS: 93685-81-5 EINECS: 297-629-8 Reg-No.: 01-2119490725-29	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	25-30%
· 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:
- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of any immediate medical attention and special 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.

No further relevant information available.

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.
 For safety reasons unsuitable
 extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for firefighters • Protective equipment: • Additional information

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. 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.

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· 6.2 Environmental precautions:	Do not allow to enter sewers/ surface or ground water.
· 6.3 Methods and material for	
containment and cleaning up:	Dispose contaminated material as waste according to item 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. 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 presentioner measures explored at the diapharage
· Information about fire - and	Take precautionary measures against static discharges. Do not smoke.
explosion protection:	Protect from heat. Protect against electrostatic charges. Prevent impact and friction. Use explosion-proof apparatus / fittings and spark-proof tools. Fumes can combine with air to form an explosive mixture. Wear shoes with conductive soles.
	Formation of flammable or explosive gas/air-mixtures is possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
 7.2 Conditions for safe storage, Storage: 	including any incompatibilities 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	ישט אווא ובטבענמטבא אבטווטמוץ עבודווננכע וטר נווא אמאאנמוטפיעוטענט.
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. Protect from heat and direct sunlight.
	Protect from contamination.
	Storage in a collecting room is required. (Contd. on page
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Recommended stor	
temperature (To mai quality):	intain max.: -10 °C
· Storage class:	5.2
7.3 Specific end use(s)	+-=
SECTION 8: Exposu	ire controls/personal protection
8.1 Control parameters	
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	
-	erm System 0.75 mg/kg bw/day (Worker) erm System 2.64 mg/m3 (Worker)
·PNECs	
29240-17-3 tert-pentyl	peroxypivalate
NEC Marinewater sed	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	on: The lists valid during the making were used as basis.
controls Individual protection	No further data; see item 7. measures, such as personal protective equipment nd
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.
	Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.
· Respiratory protectio	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
· Respiratory protectio	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.
· Respiratory protectic	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. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
	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. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter A2
· Respiratory protectio	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. 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.
· Hand protection	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. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter A2 Only use chemical-protective gloves with CE-labelling of category III. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective gloves
	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. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter A2 Only use chemical-protective gloves with CE-labelling of category III. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Hand protection	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. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
 Hand protection Material of gloves 	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. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
• Hand protection • Material of gloves • Penetration time of g	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. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
 Hand protection Material of gloves 	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. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
• Hand protection • Material of gloves • Penetration time of g	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. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.

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SECTION 9: Physical and chemical properties

· Body protection:



Protective work clothing

· 9.1 Information on basic physical and chemical properties · General Information Colour: Colourless · Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: Not applicable. Boiling point or initial boiling point and boiling range Not applicable. · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: > SADT Decomposition temperature: +25 °C (SADT) · pH Not determined. · Viscosity: Kinematic viscosity Not determined. · Dynamic: Not determined · Solubility water: Undetermined. · Partition coefficient n-octanol/water (log value) not determined · Vapour pressure: Not determined. · Density and/or relative density · Density: Not determined. Relative density Not determined. Vapour density Not determined. · 9.2 Other information No further relevant information available. · Appearance:

Fluid · Form: · Important information on protection of health and environment, and on safety. Auto-ignition temperature: Product is not selfigniting. Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · 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

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(Contd. of page 5) **SECTION 10: Stability and reactivity** 10.1 Reactivity No further relevant information available. · 10.2 Chemical stability · Thermal decomposition / conditions to be avoided: SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous selfaccelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat. · 10.3 Possibility of hazardous reactions Self-accelerating decomposition at SADT. 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-metal compounds and amines). 10.6 Hazardous decomposition products: Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications.

Emergency procedures will vary depending on conditions. The customer should have an emergency

· Additional information:

SECTION 11: Toxicological information

response plane in place.

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 LD50 4,270 mg/kg (rattus) Oral Dermal LD50 >2,000 mg/kg (cuniculosus) 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 sensitisation May cause an allergic skin reaction. 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. Based on available data, the classification criteria are not met. STOT-repeated exposure 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

· Aquatic toxicity:	
29240-17-3 tert-pe	entyl peroxypivalate
LC50 / 96h 100 m	ng/l (piscis)
EC50 / 48h 56.4 n	mg/l (daphnia)
93685-81-5 Hydro	ocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
EC50 / 48h >0.04	↓ mg/l (daphnia)
IC50 / 72h >0.04	↓ mg/l (alga)
12.2 Persistence	and degradability
· Degree of elimination	nation:
· Classification:	
29240-17-3 tert-pe	entyl peroxypivalate
Degradation (Evid	idence for inherent biodegradability.) (OECD 301 D)

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	1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
Degradation (Not readily biodeg	jradable)
12.3 Bioaccumulative potential	
Partition coefficient: nOctano	ol/water: [Log Kow]
29240-17-3 tert-pentyl peroxypiv	
12.4 Mobility in soil	No further relevant information available.
12.5 Results of PBT and vPvB	
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.
12.6 Endocrine disrupting	
properties 12.7 Other adverse effects	The product does not contain substances with endocrine disrupting properties. No further relevant information available.
Additional ecological informat	
· 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.
SECTION 13: Disposal cons	
13.1 Waste treatment methods	
Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a spectra 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)-
Waste disposal key.	number.
Uncleaned packaging:	
Recommendation:	This material and its container must be disposed of as hazardous waste.
	ormation
SECTION 14: Transport info 14.1 UN number or ID number ADR, IMDG	
I4.1 UN number or ID number ADR, IMDG	UN3115
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name ADR	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name ADR	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name ADR IMDG	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLI (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT
14.1 UN number or ID number	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLI (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name ADR IMDG 14.3 Transport hazard class(es	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLL (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name ADR IMDG 14.3 Transport hazard class(es ADR Class	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLL (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT 5) 5.2 (P2) Organic peroxides.
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name ADR IMDG 14.3 Transport hazard class(es ADR Class Label	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLI (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name ADR IMDG 14.3 Transport hazard class(es ADR Class Label	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLI (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT 5) 5.2 (P2) Organic peroxides.
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name ADR IMDG 14.3 Transport hazard class(es	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLI (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT 5) 5.2 (P2) Organic peroxides.
14.1 UN number or ID number ADR, IMDG 14.2 UN proper shipping name ADR IMDG 14.3 Transport hazard class(es ADR Class Label IMDG Class Class Class	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLI (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT 5.2 (P2) Organic peroxides. 5.2 5.2 5.2
I4.1 UN number or ID number ADR, IMDG I4.2 UN proper shipping name ADR IMDG I4.3 Transport hazard class(es ADR Class Label IMDG Class Label IMDG Class Label IMTA Class	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLI (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT 5.2 (P2) Organic peroxides. 5.2 5.2 X
I4.1 UN number or ID number ADR, IMDG I4.2 UN proper shipping name ADR IMDG I4.3 Transport hazard class(es ADR Class Label IMDG Class Label IMDG Class Label IATA	UN3115 UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (tert-AMYL PEROXYPIVALATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLI (tert-AMYL PEROXYPIVALATE), MARINE POLLUTANT 5.2 (P2) Organic peroxides. 5.2 5.2 5.2

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Printing date 03.02.2023

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Yes Symbol (fish and tree) Symbol (fish and tree) Warning: Organic peroxides. - F-F,S-R D SW1 Protected from sources of heat. SW3 Shall be transported under temperature control. SG35 Stow "separated from" SGG1-acids
Symbol (fish and tree) Symbol (fish and tree) Warning: Organic peroxides. - F-F,S-R D SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
Sýmbol (fish and tree) Warning: Organic peroxides. - F-F,S-R D SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
Warning: Organic peroxides. - F-F,S-R D SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
F-F,S-R D SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
D SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
D SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
SW3 Shall be transported under temperature control.
SG35 Stow "separated from" SGG1-acids
SG36 Stow "separated from" SGG18-alkalis.
ts Not applicable.
0
Code: F0
Not permitted as Excepted Quantity
1
D
no admission
0
Code: E0
Not permitted as Excepted Quantity
no admission
+10 °C
+15 °C
"Carriage in accordance with ADR 2.2.52.1.8."

SECTION 15: Regulatory information

· 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 E1 Hazardous to the Aquatic Environment
· Qualifying quantity (tonnes) for	
the application of lower-tier	
requirements	50 t
Qualifying quantity (tonnes) for	
the application of upper-tier	
requirements	200 t
· DIRECTIVE 2011/65/EU on the re	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
II	
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 or	n drug precursors
None of the ingredients is listed.	
Regulation (EC) No 111/2005 la precursors	ying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	
· National regulations:	

• Other regulations, limitations and prohibitive regulations • Please note: Take care of the respective local regulations.



Printing date 03.02.2023

Version: 8 (replaces version 7)

Revision: 03.02.2023

The Peroxide Company

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Trade name: PEROXAN APV-70

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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. 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
• Abbreviations and acronyms:	 Hindlig Dergan. Com RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rait) 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 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 (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPW: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. C: Organic peroxides – Type C/D Org. Perox. D: Organic peroxides – Type C/D Org. Perox. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
	GB