

Version: 12 (replaces version 11)

The Peroxide Company

Revision: 05.07.2023

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

· 1.1 Product identifier

PEROXAN OPN-50 WN-A · 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: 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

Org. Perox. F H242 Heating may cause a fire.

Skin Irrit. 2 H315 Causes skin irritation.

Repr. 1B H360F May damage fertility.

STOT SE 1 H370 Causes damage to the central nervous system and the visual organs.

2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008 · Hazard pictograms

The product is classified and labelled according to the GB CLP regulation.



· Signal word	Danger
 Hazard-determining components of labelling: 	methanol 1,1,3,3-tetramethylbutyl peroxyneodecanoate
· Hazard statements	 H242 Heating may cause a fire. H315 Causes skin irritation. H360F May damage fertility. H370 Causes damage to the central nervous system and the visual organs.
· 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. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P410 Protect from sunlight. P411+P235 Store at temperatures not exceeding -5°C. Keep cool. P420 Store separately. P501 Dispose of contents/container in accordance with local/regional/national/international
 Additional information: 2.3 Other hazards Results of PBT and vPvB asse PBT: vPvB: 	regulations. Restricted to professional users. Sessment The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

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SECTION 3: Composition/information on ingredients

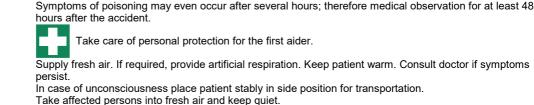
· 3.2 Mixtures

 Dangerous components: 		
CAS: 51240-95-0 EINECS: 257-077-0 Reg-No.: 01-2119966140-44	1,1,3,3-tetramethylbutyl peroxyneodecanoate Org. Perox. D, H242; Repr. 1B, H360F; Skin Irrit. 2, H315	40-50%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg-No.: 01-2119433307-44	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	10-20%
CAS: 9005-65-6	Polyoxyethylensorbitanmonooleate Aquatic Chronic 3, H412	1-2.5%
· 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 skin contact:

· After eye contact:

· After inhalation:

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

No further relevant information available.

Immediately remove contaminated clothing.

Call for a doctor immediately.

Immediately wash with water and soap and rinse thoroughly.

Rinse opened eye for several minutes under running water.

No further relevant information available.

SECTION 5: Firefighting measures

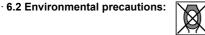
•••	
• 5.1 Extinguishing media	
	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 5.2 Special hazards arising from 	
the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
 5.3 Advice for firefighters 	
Protective equipment:	Mouth respiratory protective device.
	Do not inhale explosion gases or combustion gases.
 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.

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.



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 section 13. Ensure adequate ventilation.

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	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	0
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.
	In case of large spillage the environmental authority should be informed.

SECTION 7: Handling and storage

· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
	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).
	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.
	bo not smoke.
 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.
	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	
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.
	Protect from heat and direct sunlight.
	Protect from contamination.
	Store under lock and key and out of the reach of children.
Recommended storage	
temperature (To maintain	
quality):	-2015 °C
 Control temperature: 	-5 °C
Emergency temperature:	+5 °C
Storage class:	5.2
• 7.3 Specific end use(s)	No further relevant information available.
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SECTION 8: Expos	SECTION 8: Exposure controls/personal protection		
· 8.1 Control parameters			
•	it values that require monitoring at the workplace:		
67-56-1 methanol	· · · · · · · · · · · · · · · · · · ·		
WEL (Great Britain) S	hort-term value: 333 mg/m³, 250 ppm		
	ong-term value: 266 mg/m³, 200 ppm		
	ong-term value: 260 mg/m³, 200 ppm kin		
· DNELs			
51240-95-0 1,1,3,3-tet	ramethylbutyl peroxyneodecanoate		
	term System 5 mg/kg bw/day (Worker)		
Inhalative DNEL Long	term System 3.5 mg/m3 (Worker)		
67-56-1 methanol			
-	term System 20 mg/kg bw/day (Worker)		
Inhalative DNEL Long	term System 130 mg/m3 (Worker)		
· PNECs			
	ramethylbutyl peroxyneodecanoate		
	d 0.16 mg/kg sed dw (-)		
PNEC Freshwater	0.00033 mg/l (AF 100)		
PNEC Freshwater sed			
PNEC Soil	0.33 mg/kg soil dw (-)		
PNEC STP	127.6 mg/l (AF 10)		
PNEC Marinewater	0.000033 mg/l (AF 1.000) ion: The lists valid during the making were used as basis.		
8.2 Exposure control			
 Appropriate enginee controls 	No further data; see section 7.		
	n measures, such as personal protective equipment		
General protective			
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.		
	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.		
· Respiratory protect	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 protect	exposure use self-contained respiratory protective device.		
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.		
	Filter A2		
• Hand protection	Only use chemical-protective gloves with CE-labelling of category III.		
	Selection of the glove material on consideration of the penetration times, rates of diffusion and the		
	degradation		
	Protective gloves		
• Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of		
	quality and varies from manufacturer to manufacturer. Butyl rubber, BR		
	Fluorocarbon rubber (Viton)		
	Nitrile rubber, NBR		
· Depatration time of	Neoprene		
 Penetration time of material 	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be		
	observed.		
 Eye/face protection 			
	Tightly sealed goggles		
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· Body protection:



Protective work clothing

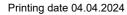
SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties	
General Information	
· Colour:	colourless - yellowish
· Odour:	Characteristic
· Odour threshold:	Not determined.
Melting point/freezing point:	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:	Not determined.
 Decomposition temperature: 	+15 °C (SADT)
· pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
Solubility	
· water:	Emulsifiable.
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: · Form:	omulaion
	emulsion
Important information on protection of health and environme	ent,
and on safety.	
· Ignition temperature:	Product is not selfigniting.
Ignition temperature: Explosive properties:	Product is not selfigniting. Product does not present an explosion hazard.
· Ignition temperature:	5 5
Ignition temperature: Explosive properties:	5 5
Ignition temperature: Explosive properties: Change in condition Evaporation rate	Product does not present an explosion hazard.
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes 	Product does not present an explosion hazard. Not determined.
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives 	Product does not present an explosion hazard. Not determined. Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases 	Product does not present an explosion hazard. Not determined. Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols 	Product does not present an explosion hazard. Not determined. Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric solids Self-heating substances and mixtures 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising gases in contact with water Oxidising liquids 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising liquids Oxidising liquids Oxidising solids 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising liquids Oxidising solids Oxidising solids Oxidising solids Organic peroxides 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising liquids Oxidising solids Oxidising solids Oxidising solids Organic peroxides Corrosive to metals 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising liquids Organic peroxides Desensitised explosives 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Oxidising solids Organic peroxides Corrosive to metals Desensitised explosives Other safety characteristics 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Oxidising solids Organic peroxides Desensitised explosives 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void
 Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Oxidising solids Organic peroxides Corrosive to metals Desensitised explosives Other safety characteristics 	Product does not present an explosion hazard. Not determined. Void Void Void Void Void Void Void Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity

No further relevant information available.



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· 10.2 Chemical stability	(Contd. of page 5)
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. 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

· Acute toxicity	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.
· LD/LC50 values relevant for classification:	
51240-95-0 1,1,3,3-tetramethylbutyl peroxyneodecanoate	
Oral LD50 >5,000 mg/kg (rattus)	
67-56-1 methanol	
Oral LD50 1,187 mg/kg (rattus)	
· Skin corrosion/irritation	Causes skin irritation.
· Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin	
sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
· Carcinogenicity	Based on available data, the classification criteria are not met.
· Reproductive toxicity	May damage fertility.
STOT-single exposure	Causes damage to the central nervous system and the visual organs.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
11.2 Information on other hazards	
· Endocrine disrupting propertie	S
None of the ingredients is listed.	

SECTION 12: Ecological information

· Aquatic toxicity:	
67-56-1 methanol	
EC50 / 72h 22,000 mg/l (algae)	
12.2 Persistence and degradability · Degree of elimination:	
· Classification:	
51240-95-0 1,1,3,3-tetramethylbutyl peroxyneodecanoate	
Degradation (Evidence for inherent biodegradability.) (OECD 301 D)	
67-56-1 methanol	
Degradation (Readily biodegradable)	
12.3 Bioaccumulative potential	
· Partition coefficient: nOctanol/water: [Log Kow]	
67-56-1 methanol	-0,77 (20°0
79-20-9 methyl acetate	0,18 (20°C
Bioconcentration factor (BCF)	
67-56-1 methanol	
BCF <10	

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12.4 Mobility in soil	No further relevant information available.
12.5 Results of PBT and vPvB	3 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.
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:	Must not be disposed together with household garbage. Do not allow product to reach sewage system. Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.

Uncleaned packaging:
 Recommendation:

This material and its container must be disposed of as hazardous waste.

SECTION 14: Transport information

SECTION 13: Disposal considerations

-	
· 14.1 UN number or ID number · ADR, IMDG	UN3119
 14.2 UN proper shipping name ADR IMDG 	UN3119 ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (1,1,3,3-TETRAMETHYLBUTYL PEROXYNEODECANOATE) ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (1,1,3,3-TETRAMETHYLBUTYL PEROXYNEODECANOATE)
· 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	5.2 (P2) Organic peroxides. 5.2
· Class · Label	5.2 Organic peroxides. 5.2
· IATA · Class · Label	X X
· 14.4 Packing group · ADR, IMDG	Void
 14.5 Environmental hazards: Marine pollutant: 	No
 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category Stowage Code 	Warning: Organic peroxides. - D SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
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· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
14.7 Maritime transport in bulk according to IM	O 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
· Remarks:	no admission
· Control temperature:	-5 °C
· Emergency temperature:	+5 °C

SECTION 15: Regulatory information

 15.1 Safety, health and environn Poisons Act 	nental regulations/legislation specific for the substance or mixture
· Regulated explosives precurse	ors
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precurs	ors
None of the ingredients is listed.	
· Reportable poisons	
None of the ingredients is listed.	
Directive 2012/18/EU Named dangerous substances - ANNEX I	methanol
· Seveso category	H3 STOT SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
 Qualifying quantity (tonnes) fo the application of lower-tier requirements Qualifying quantity (tonnes) fo the application of upper-tier 	r 50 t r
requirements	200 t
II	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
	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 o	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.	
	(Contd. on page 9) GB —

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Version: 12 (replaces version 11)

PERGAN The Peroxide Company

Revision: 05.07.2023

(Contd. of page 8)

GB —

Trade name: PEROXAN OPN-50 WN-A

· 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.

· Relevant phrases	 H225 Highly flammable liquid and vapour. H242 Heating may cause a fire. H301 Toxic if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H331 Toxic if inhaled. H360F May damage fertility. H370 Causes damage to organs. H371 May cause damage to organs. H412 Harmful to aquatic life with long lasting effects.
 Department issuing SDS: 	Environment protection / Security of labour
Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
 Abbreviations and acronyms: 	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
	Cannage of Dangerous Goods by Noad) IMDC: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals
	EINECS: European Inventory of Existing Commercial Chemical Substances
	ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
	DNEL: Derived No-Effect Level (UK REACH)
	PNEC: Predicted No-Effect Concentration (UK REACH)
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative Flam. Lig. 2: Flammable liquids – Category 2
	Org. Perox. D: Organic peroxides – Type Ć/D
	Org. Perox. F: Organic peroxides – Type E/F Acute Tox. 3: Acute toxicity – Category 3
	Skin Irrit. 2: Skin corrosion/irritation – Category 2
	Repr. 1B: Reproductive toxicity – Category 1B STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
	Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
 * Data compared to the previous version altered. 	