Printing date 03.04.2024

Version: 9 (replaces version 8)

The Peroxide Company

Revision: 05.07.2023

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

· 1.1 Product identifier

PEROXAN EPC-50 WN-A IBC

· Trade name:	PEROXAN EPC-50 WN-A
· 1.2 Relevant identified uses of the	ne 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 Manufacturer/Supplier: 	safety data sheet 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: 1.4 Emergency telephone number: 	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com - 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.	
Eye Dam. 1	H318 Causes serious eye damage.	

Skin Sens. 1 H317 May cause an allergic skin reaction.

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

· 2.2 ·La

STOT SE 1 H370 Causes dam	ge 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 CLP regulation.
· Signal word	Danger
 Hazard-determining components of labelling: 	bis(2-ethylhexyl) peroxydicarbonate methanol
· Hazard statements	H242 Heating may cause a fire. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P362+P364 Take off contaminated clothing and wash it before reuse. P410 Protect from sunlight. P410 Protect from sunlight. P411+P235 Store at temperatures not exceeding -20°C. Keep cool.
· 2.3 Other hazards · Results of PBT and vPvB asses · PBT:	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. (Contd. on page 2)

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Trade name: PEROXAN EPC-50 WN-A IBC

 Determination of endocrine- 	
disrupting properties	

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· Dangerous components:		
CAS: 16111-62-9 EINECS: 240-282-4 Reg-No.: 01-2119964452-35	bis(2-ethylhexyl) peroxydicarbonate Org. Perox. C, H242; Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	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

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 General information:

Take care of personal protection for the first aider.

hours after the accident.

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 a doctor. Call for a doctor immediately. 4.2 Most important symptoms and effects, both acute and No further relevant information available. 4.3 Indication of any immediate medical attention and special No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· After inhalation:

· After skin contact:

· After eye contact: · After swallowing:

treatment needed

delayed

· Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 5.2 Special hazards arising from 	
the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded.
	Hydrocarbons, carbondioxide and -monoxid.
 5.3 Advice for firefighters 	
 Protective equipment: 	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.
0 91	In case of further temperature should be cooled with waterspray from a safe distance.
	Wear breathing apparatus with filter A during decomposition of materials.
	Wear protective equipment. Keep unprotected persons away.
 6.2 Environmental precautions: 	
	Do not allow to enter sewers/ surface or ground water.

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	(Contd. of page 2)
 6.3 Methods and material for containment and cleaning up: 	Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal.
	Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
 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

OLOTION 7. Handling and St	
· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
nananig	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.
expression protoction	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.
	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:	
0	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.
	Storage in a collecting room is required.
Recommended storage	
temperature (To maintain	
quality):	-2015 °C
	-20 15 C 5.2
· Storage class:	5.2 (Contd. on page 4)
	(Conto. on page 4)

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Revision: 05.07.2023

Trade name: PEROXAN EPC-50 WN-A IBC

Dermal DNEL Longterm System 20 mg/kg bw/day (Worker) Inhalative DNEL Longterm System 130 mg/m3 (Worker) Istill-62-9 bis(2-ethylbexyl) peroxydicarbonate PNECS PNEC Marinewater sed 0.0228 mg/kg sed dw (-) PNEC Freshwater 0.0228 mg/kg sed dw (-) PNEC Streshwater sed 0.0228 mg/kg sed dw (-) PNEC Streshwater sed 0.0228 mg/kg sol dw (-) PNEC Streshwater sed 0.0289 mg/kg sol dw (-) PNEC Streshwater sed 0.0289 mg/kg sol dw (-) PNEC Streshwater sed 0.0289 mg/kg sol dw (-) PNEC Streshwater sed 0.032 mg/l (AF 10) PNEC Streshwater sed 0.032 mg/l (AF 50) Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls Appropriate engineering controls No further data; see section 7. Individual protective and hygienic measures: such as personal protective equipment Store protective all solied and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid close or long term controls No not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Be sure to clean s	7.3 Specific end use(s)) No further relevant information available. (Contd. of pag
Ingredients with limit values that require monitoring at the workplace: 67.65.1 methanol 67.65.1 methanol DOELV (EU) Long-term value: 260 mg/m², 200 ppm James Control Sample S	SECTION 8: Exposu	re controls/personal protection
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Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment General protective and hygienic measures: Material of gloves The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. • 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 t 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, IBR Neoprene • Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to observed.		
3.2 Exposure controls Appropriate engineering No further data; see section 7. Individual protection measures, such as personal protective equipment Individual protection measures, such as personal protective equipment General protective and The usual precautionary measures are to be adhered to when handling chemicals. 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. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks. Respiratory protection: 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. Itel a protection Confu use chemical-protective gloves with CE-labelling of category III. Filter A2 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. Veaterial of gloves The selection of the glove from manufacturer to manufacturer. Buty inuber, BR Fluorocarbon rubber (Viton) Nitriie rubber, NBR Neoprene		
Keep away from foodsfuffs, beverages and feed. Immediately remove all solied 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. Be sure to clean skin throroughly 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 protection 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. • 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 t degradation • 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, NBR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene • Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to observed.	General protective an	measures, such as personal protective equipment nd
 Respiratory 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 Hand protection Waterial of gloves Material of gloves 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 Penetration time of glove material Eve/face protection 	nygienic measures:	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.
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 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 t 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 Neoprene Penetration time of glove The exact break trough time has to be found out by the manufacturer of the protective gloves and has to observed. 		
 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 Neoprene Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to observed. 	· 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 t
Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to observed. Eye/face protection	· 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
· Eye/face protection		glove The exact break trough time has to be found out by the manufacturer of the protective gloves and has to
I ightly sealed goggles	· 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
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	Nat datawa wad
· Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not determined.
Decomposition temperature:	0 °C (SADT)
·рН	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.
Vapour density	
· 9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	emulsion
 Important information on protection of health and environment 	ent.
and on safety.	
and on safety. Ignition temperature:	Product is not selfigniting.
and on safety.	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour
and on safety. Ignition temperature: Explosive properties:	Product is not selfigniting.
and on safety. Ignition temperature: Explosive properties: Change in condition	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined.
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void
and on safety. 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 is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void
and on safety. 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 is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. 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 is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. 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	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. 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	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. 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	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
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and on safety. 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 Substances and mixtures Oxidising liquids Oxidising solids Oxidising solids Oxidising solids Oxidising solids	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Heating may cause a fire.
and on safety. 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 Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Organic peroxides Corrosive to metals	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void
and on safety. 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 Substances and mixtures Oxidising liquids Oxidising solids Organic peroxides Corrosive to metals Desensitised explosives	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Heating may cause a fire.
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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 Hydrocarbons, carbondioxide and -monoxid. products: No hazardous decomposition products if used and stored according to specifications. · Additional information: Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

Acute	Acute toxicity Dased on available data, the classification chemical are not met.		
· LD/LC50 values relevant for classification:			
16111-6	16111-62-9 bis(2-ethylhexyl) peroxydicarbonate		
Oral	ral LD50 >2.000 mg/kg (rattus)		
Dermal	al LD50 >2.000 mg/kg (rattus)		
67-56-1	methanol		
Oral	LD50 1.187 mg/kg (rattu	s)	
· Skin c	orrosion/irritation	Causes skin irritation.	
	· Serious eye damage/irritation Causes serious eye damage.		
•	ratory or skin		
	sensitisation May cause an allergic skin reaction.		
• Germ cell mutagenicity Based on available data, the classification criteria are not met.		Based on available data, the classification criteria are not met.	
· Carcin	ogenicity	Based on available data, the classification criteria are not met.	
· Repro	ductive toxicity	Based on available data, the classification criteria are not met.	
· 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.		Based on available data, the classification criteria are not met.	
11.2 Information on other hazards			
· Endoc	· Endocrine disrupting properties		
None of the ingredients is listed.			

SECTION 12: Ecological information

· 12.1 Toxicity	
· Aquatic toxicity:	
67-56-1 methanol	
EC50 / 72h 22.000 mg/l (algae)	
• 12.2 Persistence and degradability • Degree of elimination:	
· Classification:	
16111-62-9 bis(2-ethylhexyl) peroxydicarbonate	
Degradation (Readily biodegradable) (OECD 301 B)	
67-56-1 methanol	
Degradation (Readily biodegradable)	
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· 12.3 Bioaccumulative potentia	al	(Contd. of page 6
· Partition coefficient: nOctan		
16111-62-9 bis(2-ethylhexyl) pe	eroxydicarbonate	2,73
67-56-1 methanol		-0,77 (20°C)
79-20-9 methyl acetate		0,18 (20°C)
Bioconcentration factor (BCF	F)	'
67-56-1 methanol		
BCF <10		
· 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 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.		
• Remark: Toxic for fish		
· Additional ecological information	ation:	
· General notes:	Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.	

SECTION 13: Disposal cons	iderations
 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	UN3119
 14.2 UN proper shipping name ADR IMDG 	UN3119 ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE) ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE)
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P2) Organic peroxides. 5.2
·IMDG	
.	
Class	5.2 Organic peroxides.
·Label	5.2
· IATA · Class	X
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· Label	Х
· 14.4 Packing group	
· ADR, IMDG	Void
14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Organic peroxides.
Hazard identification number (Kemler code):	• • • • •
· Stowage Category	D
· 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 IMO inst	ruments 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:	-20 °C
Emergency temperature:	-10 °C

SECTION 15: Regulatory information

 \cdot 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 	H3 STOT SPĚCIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE
	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
 Qualifying quantity (tonnes) for 	
the application of lower-tier	
requirements	50 t
Qualifying quantity (tonnes) for	
the application of upper-tier	
requirements	200 t
· REGULATION (EC) No	
1907/2006 ANNEX XVII	Conditions of restriction: 3, 69
· DIRECTIVE 2011/65/EU on the re	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
П	
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
Annex I - RESTRICTED EXPLOS	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPLO	DSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 or	ו drug precursors
None of the ingredients is listed.	
č	(Contd. on page 9)

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(Contd. of page 8) • Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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.

 Department issuing SDS: Contact: Version number of previous version: Abbreviations and acronyms: 	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com 8 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) IMDC: International Maritme Code for Dangerous Goods IATA: International Maritme Code for Dangerous Goods IATA: International Maritme Code for Classification and Labelling of Chemicals EINEGS: European Inventory of Existing Commercial Chemical Substances ELINGS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration, 50 percent LDS0: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic veryB: very Persistent, Bioaccumulative and Toxic
• * Data compared to the previous version altered.	