

Version: 12 (replaces version 11)

The Peroxide Company

•)

Revision: 22.02.2023

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

· 1.1 Product identifier

PEROXAN PO M +/4

 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				
from:	Environment protection / Security of labour			
	Qualified person: E-mail: msds@pergan.com			
• 1.4 Emergency telephone				
number:	- Tel: +49 2871 9902-0			
SECTION 2: Hazards identific	ation			

SECTION 2: Hazards identified	cation
Skin Sens. 1 H317 May ca Repr. 1B H360F May da Aquatic Acute 1 H400 Very to	gulation (EC) No 1272/2008 g may cause a fire. ause an allergic skin reaction.
 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: Hazard statements 	tert-butyl 2-ethylperoxyhexanoate H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H360F May damage fertility. 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. P273 Avoid release to the environment. 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 +20°C. Keep cool. P420 Store separately. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
• Additional information: • 2.3 Other hazards	Restricted to professional users.
 Results of PBT and vPvB asses PBT: 	ssment The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· Determination of endocrine-dis	rupting properties
128-37-0 Butylated hydroxytoluen	List II

MT (Contd. on page 2)

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SECTION 3: Composition/information on ingredients

tert-butyl 2-ethylperoxyhexanoate	90-100%
Org. Perox. C, H242; Repr. 1B, H360F; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Skin Sens.	_
1, H317	
Butylated hydroxytoluene	5-10%
Aquatic Acute 1, H400; Aquatic Chronic 1, H410	-
For the wording of the listed hazard phrases refer to section 16.	
	Org. Perox. C, H242; Repr. 1B, H360F; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Skin Sens. 1, H317 Butylated hydroxytoluene Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Take care of personal protection for the first aider.

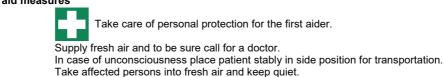
Immediately wash with water and soap and rinse thoroughly.

Rinse opened eye for several minutes under running water.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:



· After skin contact:

· After inhalation:

· After eye contact: After swallowing: · 4.2 Most important symptoms and effects, both acute and delaved

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Immediately remove contaminated clothing.

If symptoms persist consult doctor.

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

• Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 5.2 Special hazards arising from the substance or mixture Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.

5.3 Advice for firefighters Protective equipment: Additional information

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.
	In case of further temperature should be cooled with waterspray from a safe distance.
	Wear breathing apparatus with filter A during decomposition of materials.
	Wear protective equipment. Keep unprotected persons away.
· 6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.
	Do not allow to enter sewers/ surface or ground water.
• 6.3 Methods and material for	
containment and cleaning up:	Ensure adequate ventilation.
J	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.
	(Contd on page 3)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31 Version: 12 (replaces version 11)

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(Contd. of page 2) 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. 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. 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. heavymetal compounds and amines). While using do not eat, drink or smoke. Do not generate flames or sparks. Keep product and emptied container away from heat and sources of ignition. Avoid shock and friction. Take precautionary measures against static discharges. Do not smoke. · 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 Do not store or park organic peroxide together with heavy metal compounds and amines. one common storage facility: Store away from foodstuffs, drinks and feeding stuffs. Further information about storage conditions: Protect from heat and direct sunlight. Protect from contamination. Storage in a collecting room is required. · Recommended storage temperature (To maintain max.: +15 °C quality): +20 °C Control temperature: · Emergency temperature: +25 °C Storage class: 5.2 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters · Ingredients with limit values that require monitoring at the workplace: 128-37-0 Butylated hydroxytoluene WEL (Great Britain) Long-term value: 10 mg/m³ · DNELs 3006-82-4 tert-butyl 2-ethylperoxyhexanoate Dermal DNEL Longterm System 5,6 mg/kg bw/day (Worker) (Contd. on page 4)

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Innalative DNEL Longte	
400.07.0 Dut data d had	rm System 9,8 mg/m3 (Worker)
128-37-0 Butylated hyd	•
	rm System 0,5 mg/kg bw/day (Worker)
	rm System 1,76 mg/m3 (Worker)
PNECs	
3006-82-4 tert-butyl 2-e	
PNEC Marinewater sed	
PNEC Freshwater 0,002 mg/l (AF 50)	
PNEC Freshwater sed 0,622 mg/kg sed dw	
PNEC STP 0,64 mg/l (AF 100)	
PNEC Marinewater	0 mg/l (AF 500)
128-37-0 Butylated hyd	
PNEC Marinewater sed	
PNEC Freshwater	0,000199 mg/l (AF 1.000)
PNEC Seawater	0,00002 mg/l (AF 10.000)
PNEC Freshwater sed	0,458 mg/kg sed dw (-)
PNEC Soil	0,054 mg/kg soil dw (-)
PNEC STP	0,017 mg/l (AF 100)
· Additional informatio	n: The lists valid during the making were used as basis.
controls	and a second second second second second second second
	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. 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. Not necessary if room is well-ventilated. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
 Individual protection n General protective ar hygienic measures: 	d 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. 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. n: Not necessary if room is well-ventilated. 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. Selection of the glove material on consideration of the penetration times, rates of diffusion and th degradation
 Individual protection n General protective ar hygienic measures: Respiratory protectio 	 d 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. 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. n: Not necessary if room is well-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 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
 Individual protection i General protective ar hygienic measures: Respiratory protection Hand protection Material of gloves 	d 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. 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. n: Not necessary if room is well-ventilated. image: With the spiratory 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 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
 Individual protection i General protective ar hygienic measures: Respiratory protectio Hand protection 	d 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. 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. n: Not necessary if room is well-ventilated. impediately remove all soile and contaminated clothing 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 th degradation Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene Ilove The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be
 Individual protection i General protective ar hygienic measures: Respiratory protection Hand protection Material of gloves Penetration time of g 	d 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. 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. n: Not necessary if room is well-ventilated. impose 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 th degradation Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene

• 9.1 Information on basic physical and chemical properties

General Information Colour:

colourless - yellowish

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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:	+35 °C (SADT)
рН	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	13 mPas
Solubility	
· water:	Undetermined.
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0,898 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
.2 Other information Appearance: Form:	Fluid
Important information on protection of health and environme	
and on safety.	
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	Void
•	Void
Flammable solids	VOID
Self-reactive substances and mixtures	Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids	Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in	Void Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Void Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Void Void Void Void Void Void
Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available. 10.2 Chemical stability · Thermal decomposition / conditions to be avoided: SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT. 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. (Contd. on page 6)



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• 10.5 Incompatible materials:	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g.
	heavy-metal compounds and amines).
 10.6 Hazardous decomposition 	
products:	Hydrocarbons, carbondioxide and -monoxid.
	No hazardous decomposition products if used and stored according to specifications.
 Additional information: 	Emergency procedures will vary depending on conditions. The customer should have an emergency
	response plane in place.

SECTION 11: Toxicological information

11.1 Inform		hazard class	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC50	values rel	levant for cla	assification:	
3006-82-4	tert-butyl 2	2-ethylperox	yhexanoate	
Oral	LD50	>10.000 mg/	/kg (rattus)	
Dermal	LD50	14.142-20.00	00 mg/kg (rabbit)	
Inhalative	LC50 / 4h	42,2 mg/l (ra	ttus)	
128-37-0 B	Butylated h	ydroxytolue	ne	
Oral	LD50	>2.000 mg/k	g (rattus)	
Dermal	LD50	>2.000 mg/k	g (rabbit)	
Skin corr	• Skin corrosion/irritation Based on available data, the classification criteria are not met.			
		e/irritation	Based on available data, the classification criteria are not met.	
Respirato				
sensitisat		May cause an allergic skin reaction.		
· Germ cell	•	•		
Carcinog		Based on available data, the classification criteria are not met.		
· Reproduc				
STOT-sin	• •			
		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			
		ng properties		
	•	• · ·		1
128-37-0 E	sulyiated h	ydroxytoluen	e	List II

SECTION 12: Ecological information

 Aquatic to 	oxicity:	
3006-82-4 t	tert-butyl 2-ethylperoxyhexanoate	
EC50 / 72h	0,44 mg/l (alga (Süsswasser))	
LC50 / 96h	8,66 mg/l (poecilia reticulata)	
EC50 / 48h	7,5 mg/l (daphnia)	
128-37-0 B	utylated hydroxytoluene	
LC0 /96h	>0,57 mg/l (fish)	
EC50 / 48h	0,61 mg/l (daphnia)	
IC50 / 72h	>0,4 mg/l (algae)	
	stence and degradability	
•	elimination:	
· Classifica	ation:	
	tert-butyl 2-ethylperoxyhexanoate	
-	n (Readily biodegradable) (OECD 301 D)	
	utylated hydroxytoluene	
Degradation	n (Not readily biodegradable)	
12.3 Bioac	cumulative potential	
· Partition	coefficient: nOctanol/water: [Log Kow]	
3006-82-4	tert-butyl 2-ethylperoxyhexanoate	4,79 (20°C)
128-37-0	Butylated hydroxytoluene	5,1
07 50 4	methanol	-0,77 (20°C)

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Discourse that is a factor (DO	(Contd. of page 6		
Bioconcentration factor (BC			
128-37-0 Butylated hydroxyto	bluene		
BCF 1.277			
12.4 Mobility in soil	No further relevant information available.		
12.5 Results of PBT and vPv			
· 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	For information on endocrine disrupting properties see section 11.		
12.7 Other adverse effects			
· Remark:	Toxic for fish		
 Additional ecological inform 			
· General notes:	Toxic for aquatic organisms		
	Also poisonous for fish and plankton in water bodies.		
	Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water		
	Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.		
SECTION 13: Disposal co			
13.1 Waste treatment method	ds After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a specia		
	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		
	system.		
· Waste disposal key:	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.		
· Uncleaned packaging:			

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG	UN3113
 14.2 UN proper shipping name ADR IMDG 	UN3113 ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-BUTYLPEROXY-2-ETHYLHEXANOATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (tert-BUTYLPEROXY-2-ETHYLHEXANOATE), MARINE POLLUTANT
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P2) Organic peroxides. 5.2
Class	5.2 Organic peroxides.
	5.2
· IATA · Class · Label	X X
· 14.4 Packing group · ADR, IMDG	Void
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: tert- BUTYLPEROXY-2-ETHYLHEXANOATE
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	(Contd. of page
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Organic peroxides.
Hazard identification number (Kemler code):	• • • •
· Stowage Category	D
· 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.
· 14.7 Maritime transport in bulk according to IMO instr	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:	+25 °C

* SECTION 15: Regulatory information

 15.1 Safety, health and environm 	ental regulations/legislation specific for the substance or mixture	
 Directive 2012/18/EU Named dangerous substances ANNEX I 	None of the ingredients is listed.	
	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	
· Seveso category		
· Ouglifying quantity (tennes) for	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	
REGULATION (EC) No		
1907/2006 ANNEX XVII	Conditions of restriction: 3, 30, 75	
• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II		
None of the ingredients is listed.		
· REGULATION (EU) 2019/1148		
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))		
None of the ingredients is listed.		
· Annex II - REPORTABLE EXPLOSIVES PRECURSORS		
None of the ingredients is listed.		
· Regulation (EC) No 273/2004 on drug precursors		
None of the ingredients is listed.		
 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors 		
None of the ingredients is listed.		
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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.

 Department issuing SDS: Contact: 	Environment protection / Security of labour Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
· Version number of previous	44
version: · Abbreviations and acronyms:	 11 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative Org. Perox. C: Organic peroxides – Type C/D Skin Sens: 1: Skin sensitisation – Category 1 Aquatic Acuter 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 * Data compared to the previous version altered. 	Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2