

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-50

PEROXAN PO-50 e substance or mixture and uses advised against No further relevant information available. Reaction initiator For industrial use
safety data sheet PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50
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 substant		
 Classification according to Reg 	gulation (EC) No 1	272/2008
Flam. Liq. 3 H226 Flamm	able liquid and vap	our.
Org. Perox. F H242 Heatin	g may cause a fire.	
U U	ause an allergic ski	
,	0	
	amage fertility.	
Asp. Tox. 1 H304 May b	e fatal if swallowed	and enters airways.
Aquatic Acute 1 H400 Very to	oxic to aquatic life.	
Aquatic Chronic 2 H411 Toxic 1	o aquatic life with lo	ong lasting effects.
2.2 Label elements		
· Labelling according to		
Regulation (EC) No 1272/2008	The product is cla	assified and labelled according to the CLP regulation.
· Hazard pictograms		
nazaru pictograms		
	GHS02 GHS07 G	GHS08 GHS09
· Signal word	Danger	
•	Ballgol	
Hazard-determining		
components of labelling:	tert-butyl 2-ethylp	
		4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
· Hazard statements		le liquid and vapour.
	H242 Heating m	
		e an allergic skin reaction.
	H360F May dama	tal if swallowed and enters airways.
		to aquatic life with long lasting effects.
· Precautionary statements	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
Frecautionaly statements	1210	smoking.
	P220	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and
	1 220	accelerators (e. g. heavy metal compounds and amines).
	P234	Keep only in original packaging.
	P243	Take action to prevent static discharges.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
		protection.
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P331	Do NOT induce vomiting.
	P303+P361+P35	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	D405	water [or shower].
	P405	Store locked up.
	P410	Protect from sunlight.
	P411+P235 P420	Store at temperatures not exceeding +35°C. Keep cool.
	P420 P501	Store separately. Dispose of contents/container in accordance with local/regional/national/international
	1 001	regulations.
· Additional information:	Restricted to prof	
	professional profession	

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2 2 Other hererde	(Contd. of page 1)
2.3 Other hazards	
 Results of PBT and vPvB asse 	ssment
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
 Determination of endocrine- 	-
disrupting properties	The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 Dangerous components: 		
CAS: 93685-81-5 EINECS: 297-629-8 Reg-No.: 01-2119490725-29	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	40-50%
CAS: 3006-82-4 EINECS: 221-110-7 Reg-No.: 01-2119498310-40	tert-butyl 2-ethylperoxyhexanoate Org. Perox. C, H242; Repr. 1B, H360F; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Skin Sens. 1,	40-50%
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

• 4.1 Description of first aid measures • General information:

· After inhalation:

· After skin contact:

· After eye contact:

After swallowing:



Take care of personal protection for the first aider.

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet. Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water. If symptoms persist consult doctor.

delayed 4.3 Indication of any immediate medical attention and special treatment needed

4.2 Most important symptoms and effects, both acute and

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:
 For safety reasons unsuitable extinguishing agents:
 5.2 Special hazards arising from the substance or mixture
 5.3 Advice for firefighters
 Protective equipment:
 Additional information
 CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 Water with full jet
 Do not inhale explosion gases or combustion gases.
 Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

Self-protection first!

 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.

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(Contd. of page 2)
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.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
In case of large spillage the environmental authority should be informed.

SECTION 7: Handling and storage

· 7.1 Precautions for safe	
handling	Keen away from heat and direct sunlight
nanumy	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. 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.
explosion protection.	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.
	romation of naminable of explosive gas/air-mixtures is possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
• 7.2 Conditions for safe storage,	
Storage:	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.
	Storage in a collecting room is required.
Recommended storage	
temperature (To maintain	
quality):	max.: +15 °C
	5.2
· Storage class:	
 7.3 Specific end use(s) 	No further relevant information available.
	MT — (Contri on page 4)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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SECTION 8: Exposu	re controls/personal protection
8.1 Control parameters Ingredients with limit that require monitorin workplace:	values
DNELs	
3006-82-4 tert-butyl 2-e	thylperoxyhexanoate
Dermal DNEL Longte	rm System 5,6 mg/kg bw/day (Worker)
Inhalative DNEL Longte	erm System 9,8 mg/m3 (Worker)
PNECs	
3006-82-4 tert-butyl 2-e	thylperoxyhexanoate
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)
· Additional informatio	n: The lists valid during the making were used as basis.
Individual protection General protective ar	
General protective ar hygienic measures:	 measures, such as personal protective equipment 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:
Individual protection General protective ar	measures, such as personal protective equipment Ind The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all solled 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. nt Not necessary if room is well-ventilated. Filter A2 Only use chemical-protective gloves with CE-labelling of category III.
Individual protection General protective ar hygienic measures:	measures, such as personal protective equipment Intervention Immediately remove all solled 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. m: 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 t 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 General protective ar hygienic measures: Respiratory protection Hand protection	measures, such as personal protective equipment id 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. m: 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. Weat the glove material on consideration of the penetration times, rates of diffusion and t 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 General protective ar hygienic measures: Respiratory protection	measures, such as personal protective equipment Id Image: 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. nr. Not necessary if room is well-ventilated. Filter A2 Only 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 t 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 Image: Protectine streak trough time has to be found out by the manufacturer of th
Individual protection General protective ar hygienic measures: Respiratory protection Hand protection Material of gloves	measures, such as personal protective equipment id Image: 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. Image:

• • • •	
· 9.1 Information on basic physical and chemical	properties
 General Information 	
· Colour:	colourless - yellowish
· Odour:	Characteristic

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· 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:	+45 °C (SADT)
·pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Undetermined.
Partition coefficient n-octanol/water (log value)	not determined
· Vapour pressure:	Not determined.
Density and/or relative density	
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	No further relevant information available.
• Appearance:	
· Form:	Fluid
Important information on protection of health and environm	
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.
•	Not determined.
Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
 Self-reactive substances and mixtures 	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in	
contact with water	Void
· Oxidising liquids	Void
	Void
· Oxidising solids	
• Oxidising solids • Organic peroxides	Heating may cause a fire
Oxidising solids Organic peroxides Corrosive to metals	Heating may cause a fire. Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity 10.2 Chemical stability

reactions

No further relevant information available.

· 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 Self-accelerating decomposition at SADT. 10.4 Conditions to avoid No further relevant information available.



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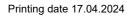
· 10.5 Incompatible materials:	(Contd. of page 5) Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
 10.6 Hazardous decomposition 	
products:	Hydrocarbons, carbondioxide and -monoxid.
Additional information:	No hazardous decomposition products if used and stored according to specifications. 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.				
· LD/LC50	values re	levant for cla	assification:	
93685-81-	5 Hydroca	rbons, C4, 1,	3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
Oral	LD50	>5.000 mg/k	g (rattus)	
3006-82-4	tert-butyl	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	attus)	
· Skin corr	osion/irrita	ation	Based on available data, the classification criteria are not met.	
		e/irritation	Based on available data, the classification criteria are not met.	
	ory or skin			
sensitisa			May cause an allergic skin reaction.	
	l mutageni	icity	Based on available data, the classification criteria are not met.	
Carcinogenicity Based on available data, the classification criteria are not met.		Based on available data, the classification criteria are not met.		
Reproductive toxicity May damage fertility.				
STOT-sin	• STOT-single exposure Based on available data, the classification criteria are not met.			
STOT-repeated exposure Based on available data, the classification criteria are not met.			Based on available data, the classification criteria are not met.	
Aspiratio	n hazard ُ		May be fatal if swallowed and enters airways.	
11.2 Information on other hazards				
· Endocrine disrupting properties				
None of the ingredients is listed.				

SECTION 12: Ecological information

· 12.1 Toxicity		
· Aquatic toxicity:		
93685-81-5 Hydrocarbons, C4,	1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
EC50 / 48h >0,04 mg/l (daphnia)		
IC50 / 72h >0,04 mg/l (algae)		
3006-82-4 tert-butyl 2-ethylpero	xyhexanoate	
EC50 / 72h 0,44 mg/l (alga (Süs	swasser))	
LC50 / 96h 8,66 mg/l (poecilia re	eticulata)	
EC50 / 48h 7,5 mg/l (daphnia)		
12.2 Persistence and degradab	ility	
· Degree of elimination:		
· Classification:		
93685-81-5 Hydrocarbons, C4,	1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
Degradation (Not readily biodeg	radable)	
3006-82-4 tert-butyl 2-ethylpero	xyhexanoate	
Degradation (Readily biodegrad	able) (OECD 301 D)	
12.3 Bioaccumulative potential		
· Partition coefficient: nOctano	I/water: [Log Kow]	
3006-82-4 tert-butyl 2-ethylperox	yhexanoate	4,79 (20°C)
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvB a		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, a	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, a	nnex 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	
		(Contd. on page 7



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(Contd. of pag Toxic for fish	
formation:	
Also poisonous for fish and plankton in water bodies.	
Toxic for aquatic organisms	
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.	
Danger to drinking water if even extremely small quantities leak into the ground.	
I considerations	

•	
• 13.1 Waste treatment methods • Recommendation	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.
· 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

· 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 (tert-BUTYLPEROXY-2-ETHYLHEXANOATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE F, 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
·IMDG	
Class	5.2 Organic peroxides.
· Label	5.2
·IATA	
Class	X
· Label	X
14.4 Packing group	
· ADR, IMDG	Void
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: tert- BUTYLPEROXY-2-ETHYLHEXANOATE
· 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 SIM/4 Distantial from assumed of head
Stowage Code	SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
	SG35 Stow "separated from" SGG1-acids
Segregation Code	

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· 14.7 Maritime transport in bulk according to IMO instrumen	ts Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0 Not permitted as Excepted Quantity
 Transport category Tunnel restriction code 	1 D
· RID / GGVSEB:	no admission
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	0 Code: E0 Not permitted as Excepted Quantity
· IATA · Remarks:	no admission
· Control temperature: · Emergency temperature:	+35 °C +40 °C
Additional provisions for organic peroxides of Class 5.2	"Carriage in accordance with ADR 2.2.52.1.8."

SECTION 15: Regulatory information

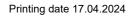
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

forr ourory, nourin und onthorn	
 Directive 2012/18/EU Named dangerous substances ANNEX I Seveso category 	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E1 Hazardous to the Aquatic Environment
 Qualifying quantity (tonnes) for the application of lower-tier requirements 	50 t
 Qualifying quantity (tonnes) for the application of upper-tier requirements 	200 t
REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3, 30, 40, 75
DIRECTIVE 2011/65/EU on the re	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPLO	OSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 or	n drug precursors
None of the ingredients is listed.	
Regulation (EC) No 111/2005 la precursors	ying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	

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: 	Environment protection / Security of labour
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
 Version number of previous 	
version:	11



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 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)
	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 Level (REACH)
	PNEC: Predicted No-Effect Concentration (REACH)
	LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic
	PDT: Persistent, bioaccumulative and personal accumulative
	Flam. Lig. 3: Flammable liquids – Category 3
	Org. Perox. C: Organic peroxides – Type C/D
	Org. Perox. F: Organic peroxides – Type E/F
	Skin Sens. 1: Skin sensitisation – Category 1
	Repr. 1B: Reproductive toxicity – Category 1B
	Asp. Tox. 1: Aspiration hazard – Category 1
	Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
	Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
	Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
* Data compared to the	
previous version altered.	

