

Version: 13 (replaces version 12)

• **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-30

 Trade name: 1.2 Relevant identified uses of the 	PEROXAN PO-30 ne substance or mixture and uses advised against
 Application of the substance / the mixture 	No further relevant information available. 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 substan		
Classification according to Reg		
•	able liquid and vap	our.
0	g may cause a fire.	
	ause an allergic skir	n reaction.
Repr. 1B H360F May da	0 ,	
		and enters airways.
· · · · · · · · · · · · · · · · · · ·	oxic to aquatic life.	
Aquatic Chronic 2 H411 Toxic t	o aquatic life with lo	ong lasting effects.
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms 	The product is cla	assified and labelled according to the CLP regulation.
· Signal word	Danger	
U	20	
· Hazard-determining components of labelling:		4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
· Hazard statements	H242 Heating m H317 May cause H360F May dama H304 May be fai H410 Very toxic	e an allergic skin reaction. age fertility. tal if swallowed and enters airways. to aquatic life with long lasting effects.
 Precautionary statements 	P210 P220	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and
	P234 P273 P280	accelerators (e. g. heavy metal compounds and amines). Keep only in original packaging. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P301+P310 P331 P303+P361+P353	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting. 3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	P362+P364 P405 P410 P411+P235 P420	water [or shower]. Take off contaminated clothing and wash it before reuse. Store locked up. Protect from sunlight. Store at temperatures not exceeding +40°C. Keep cool. Store separately.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional information:	Restricted to profe	essional users.

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· 2.3 Other hazards	(Contd. of page 1)
• Results of PBT and vPvB asse	semant
· 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	60-70%
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,	30-40%
· 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. No further relevant information available.
- 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

extinguishing agents:

- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. · For safety reasons unsuitable Water with full jet 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.

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.



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Self-protection first!

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• 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

· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
handling	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.
	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 share with conductive color
	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.
	Fay allention to the special requirements of your local automities for storing dangelous 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.
see	Store away from foodstuffs, drinks and feeding stuffs.
· Further information about	
· Further information about	Keen container tightly cooled
 Further information about storage conditions: 	Keep container tightly sealed.
	Protect from heat and direct sunlight.
	Protect from heat and direct sunlight. Protect from contamination.
	Protect from heat and direct sunlight.
	Protect from heat and direct sunlight. Protect from contamination.
storage conditions:	Protect from heat and direct sunlight. Protect from contamination.
storage conditions: Recommended storage temperature (To maintain	Protect from heat and direct sunlight. Protect from contamination. Storage in a collecting room is required.
storage conditions: Recommended storage temperature (To maintain quality):	Protect from heat and direct sunlight. Protect from contamination. Storage in a collecting room is required. max.: +15 °C
storage conditions: Recommended storage temperature (To maintain quality): Control temperature:	Protect from heat and direct sunlight. Protect from contamination. Storage in a collecting room is required. max.: +15 °C +40 °C
storage conditions: Recommended storage temperature (To maintain quality): Control temperature: Emergency temperature:	Protect from heat and direct sunlight. Protect from contamination. Storage in a collecting room is required. max.: +15 °C +40 °C +45 °C
storage conditions: Recommended storage temperature (To maintain quality): Control temperature:	Protect from heat and direct sunlight. Protect from contamination. Storage in a collecting room is required. max.: +15 °C +40 °C

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7.3 Specific end use(s) No further relevant information available. (Contd. of p
SECTION 8: Exposu	re controls/personal protection
8.1 Control parameters Ingredients with limit that require monitorir	values ng at the
workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
DNELs	
3006-82-4 tert-butyl 2-6	ethylperoxyhexanoate
Dermal DNEL Longte	erm System 5,6 mg/kg bw/day (Worker)
nhalative DNEL Longte	erm System 9,8 mg/m3 (Worker)
PNECs	
3006-82-4 tert-butyl 2-6	ethylperoxyhexanoate
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 information	
Individual protection	massures, such as personal protective equipment
Individual protection General protective an hygienic measures: Respiratory protectio	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.
General protective an hygienic measures:	 The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid close or long term contact with the skin. 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. Immediately respiratory device when it exceed exposure limit and when insufficiently ventilater 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 degradation
General protective an hygienic measures: Respiratory protectio	Image: State of the second state of
General protective an hygienic measures: Respiratory protection Hand protection	Image: State of the second
General protective an hygienic measures: Respiratory protection Hand protection	Image: State of the second
General protective as hygienic measures: Respiratory protection Hand protection Material of gloves	Image: Second State State 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. Image: State Stat
General protective an hygienic measures: Respiratory protection Hand protection • Material of gloves	Ind 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. Immediately remove gloves Filter A2 Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilate 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 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 glove

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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	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	> SADT
Decomposition temperature:	+50 °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	Not determined.
· Density at 20 °C:	0.784 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health and environme	ent,
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	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in	
contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Heating may cause a fire.
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity
 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided: No further relevant information available.

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.

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	No decomposition if used and stored according to specifications.
	To avoid thermal decomposition do not overheat.
 10.3 Possibility of hazardous 	
reactions	Self-accelerating decomposition at SADT.
10.4 Conditions to avoid	No further relevant information available.
· 10.5 Incompatible materials:	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
 10.6 Hazardous decomposition 	
products:	Hydrocarbons, carbondioxide and -monoxid.
-	No hazardous decomposition products if used and stored according to specifications.
· Additional information:	Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

· LD/LC50 values relevant for classification: 93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Oral LD50 >5.000 mg/kg (rattus) 3006-82-4 tert-butyl 2-ethylperoxyhexanoate Oral LD50 >10.000 mg/kg (rattus) Dermal LD50 14.142-20.000 mg/kg (rabbit)	
Oral LD50 >5.000 mg/kg (rattus) 3006-82-4 tert-butyl 2-ethylperoxyhexanoate Oral LD50 >10.000 mg/kg (rattus)	
3006-82-4 tert-butyl 2-ethylperoxyhexanoate Oral LD50 >10.000 mg/kg (rattus)	
Oral LD50 >10.000 mg/kg (rattus)	
0.0(0,1)	
Dermal LD50 14.142-20.000 mg/kg (rabbit)	
Inhalative LC50 / 4h 42,2 mg/l (rattus)	
· Skin corrosion/irritation Based on available data, the classification criteria are not met.	
• Serious eye damage/irritation Based on available data, the classification criteria are not met.	
Respiratory or skin	
sensitisation May cause an allergic skin reaction.	
Germ cell mutagenicity Based on available data, the classification criteria are not met.	
Carcinogenicity Based on available data, the classification criteria are not met.	
· Reproductive toxicity May damage fertility.	
• 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.	
· Aspiration hazard May be fatal if swallowed and enters airways.	
· 11.2 Information on other hazards	
· Endocrine disrupting properties	
None of the ingredients is listed.	

SECTION 12: Ecological information

· Aquatic toxicity:	
93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrocarbons, c4, 1,3-butadiene fraction, hydrocarbons, c4, 1,3-but	rogenated
EC50 / 48h >0,04 mg/l (daphnia)	
IC50 / 72h >0,04 mg/l (algae)	
3006-82-4 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)	
12.2 Persistence and degradability	
· Degree of elimination:	
· Classification:	
93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrocarbons,	rogenated
Degradation (Not readily biodegradable)	
3006-82-4 tert-butyl 2-ethylperoxyhexanoate	
Degradation (Readily biodegradable) (OECD 301 D)	
12.3 Bioaccumulative potential	
· Partition coefficient: nOctanol/water: [Log Kow]	
3006-82-4 tert-butyl 2-ethylperoxyhexanoate	4,79 (20°C
• 12.4 Mobility in soil No further relevant information available.	

substances in the mixture do not meet the PBT/v x XIII (Contd. on page 7)



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 · vPvB: · 12.6 Endocrine disrupting 	(Contd. of page 6) The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.	
roperties	The product does not contain substances with endocrine disrupting properties.	
Remark: Additional ecological informat	Toxic for fish	
· 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 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 system.

Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-

Waste disposal key:
 Uncleaned packaging:
 Recommendation:

number.

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

UN3119
UN3119 ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (tert-BUTYLPEROXY-2-ETHYLHEXANOATE), ENVIRONMENTALLY HAZARDOUS
ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLE (tert-BUTYLPEROXY-2-ETHYLHEXANOATE), MARINE POLLUTANT
5.2 (P2) Organic peroxides. 5.2
5.2
5.2 Organic peroxides.
5.2
Х
X
Void
Product contains environmentally hazardous substances: tert- BUTYLPEROXY-2-ETHYLHEXANOATE
Symbol (fish and tree)
Symbol (fish and tree)
Warning: Organic peroxides.
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· 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	instruments Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	1
 Tunnel restriction code 	D
· RID / GGVSEB:	no admission
·IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· IATA	
· Remarks:	no admission
· Control temperature:	+40 °C
· Emergency temperature:	+45 °C

SECTION 15: Regulatory information

 15.1 Safety, health and environr 	nental regulations/legislation specific for the substance or mixture	
Directive 2012/18/EU Named dangerous substances		
- ANNEX I	None of the ingredients is listed.	
 Seveso category 	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	
	E1 Hazardous to the Aquatic Environment	
Qualifying quantity (tonnes) fo)r	
the application of lower-tier	F0.4	
requirements • Qualifying quantity (tonnes) fo	50 t	
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 I	restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex	
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 EXPL	OSIVES PRECURSORS	
None of the ingredients is listed.		
· Regulation (EC) No 273/2004 o	n drug precursors	
None of the ingredients is listed.		
 Regulation (EC) No 111/2005 la precursors 	aying 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.

· Relevant phrases

- H226 Flammable liquid and vapour.
- H242 Heating may cause a fire.H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

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	(Contd. of page 8) H360F May damage fertility. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.
· Department issuing SDS: · Contact:	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
· Version number of previous version:	12
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 PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative Flam. Lig. 3: Flammable liquids – Category 3 Org. Perox. E: Organic peroxides – Type C/D Org. Perox. E: Organic peroxides – Type C/D Org. Perox. E: Organic peroxides – Type C/D Org. Perox. E: Appiration 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.	Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4