

Version: 8 (replaces version 7)



Revision: 16.02.2023

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

· 1.1 Product identifier

PEROXAN PIN S1

· Trade name:	FERUMAN FIN ST	
· 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	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 identifie	ation	

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008		
Org. Perox. D	H242 Heating may cause a fire.	
Skin Sens. 1	H317 May cause an allergic skin reaction.	
Aquatic Acute 1	H400 Very toxic to aquatic life.	
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.	

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.



Danger

•	Signal	word
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· Hazard-determining		
components of labelling:	tert-Butylp	peroxy-3,5,5-trimethylhexanoate
· Hazard statements		ating may cause a fire.
		/ cause an allergic skin reaction.
		v 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+P3	78 In case of fire: Use CO2, powder or water spray to extinguish.
	P410	Protect from sunlight.
	P411+P2	35 Store at temperatures not exceeding +30°C. Keep cool.
	P420	Store separately.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazards		0
• Results of PBT and vPvB asse	ssment	
· PBT:	The subst	tances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· vPvB:		tances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Determination of endocrine-		
disrupting properties	The produ	uct does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

•	3.2	Mixtures	
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	 Dangerous components: 		
	CAS: 13122-18-4	tert-Butylperoxy-3,5,5-trimethylhexanoate	80-90%
	EINECS: 236-050-7	Org. Perox. D, H242; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	
	Reg-No.: 01-2119498308-25		
_		(Cor	ntd. on page 2)

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		Contd. of page 1)
CAS: 123-54-6	pentane-2,4-dione	5-10%
EINECS: 204-634-0	Flam. Lig. 3, H226; Acute Tox. 3, H311; Acute Tox. 3, H331; Acute Tox. 4, H302	
Index number: 606-029-00-0		
Reg-No.: 01-2119458968-15		
· 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:
- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of any immediate medical attention and special treatment needed

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.

No further relevant information available.

SECTION 5: Firefighting measures

 5.1 Extinguishing media Suitable extinguishing agents: 5.2 Special hazards arising from 	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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:	Do not inhale explosion gases or combustion gases.
Additional information	Cool endangered receptacles with water spray. Self-protection first!

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and 	
emergency procedures	Keep away from ignition sources.
	In case of further temperature should be cooled with waterspray from a safe distance.
	Wear breathing apparatus with filter A during decomposition of materials.
	Wear protective equipment. Keep unprotected persons away.
 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.
containment and cleaning up.	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 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 receptacles tightly sealed.
	Store in cool, dry place in tightly closed receptacles.

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	(Contd. of page Keep away from heat and direct sunlight.
	Ensure good ventilation/exhaustion at the workplace.
	Open and handle receptacle with care.
	Prevent formation of aerosols.
	Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
	Do not refill residue into storage receptacles.
	Restrict the quantity stored at the work place.
	Use only in well ventilated areas.
	Before break and at the end of work hands should be thoroughly washed. Only use tools made of suitable materials (e. g. polyethylene or stainless steel).
	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy
	metal compounds and amines).
	Avoid contact with skin and eyes.
	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 in a cool location.
	Store only in the original receptacle.
	Prevent any seepage into the ground.
· Information about storage in	Use only receptacles specifically permitted for this substance/product.
one common storage facility:	Do not store or park organic peroxide together with heavy metal compounds and amines.
one common storage racinty.	Store away from foodstuffs, drinks and feeding stuffs.
· Further information about	
storage conditions:	Keep container tightly sealed.
U	Store in cool, dry conditions in well sealed receptacles.
	Protect from heat and direct sunlight.
	Protect from contamination.
	Store in a cool place.
Decomposed of stores	Storage in a collecting room is required.
 Recommended storage temperature (To maintain 	
quality):	max.: +30°C
· Storage class:	5.2
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure contr	ols/personal protection
8.1 Control parameters	

· Ingredier	· Ingredients with limit values that require monitoring at the workplace:	
123-54-6 p	pentane-2,4-dione	
OEL (Irela	nd) Long-term value: 25 p	opm
· DNELs	DNELS	
13122-18-	13122-18-4 tert-Butylperoxy-3,5,5-trimethylhexanoate	
Dermal	DNEL Longterm System	3,2 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	5,6 mg/m3 (Worker)
		(Contd. on page 4)
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	(Contd. of page 3)
123-54-6 pentane-2,4-di	
	rm System 12 mg/kg bw/day (Worker)
	rm System 84 mg/m3 (Worker)
PNECs	
	roxy-3,5,5-trimethylhexanoate
PNEC Marinewater sed	
	0,003 mg/l (AF 50)
	0,497 mg/kg sed dw (-)
	0,098 mg/kg soil dw (-)
	2,6 mg/l (AF 10)
I	0 mg/l (AF 500)
123-54-6 pentane-2,4-di	
PNEC Marinewater sed PNEC Freshwater	
	0,2 mg/l (AF 50) 1,909 mg/kg sed dw
	0,193 mg/kg soil dw (-)
	1,32 mg/l (AF 10)
	0,02 mg/l (AF 500)
· Additional information	
8.2 Exposure controls Appropriate engineerin controls Individual protection n General protective an hygienic measures:	ng No further data; see section 7. neasures, such as personal protective equipment
• Respiratory protection	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. Do not inhale gases / fumes / aerosols. 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.
· Hand protection	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
 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 g material 	
• Eye/face protection	Tightly sealed goggles
Body protection:	Protective work clothing
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SECTION 9: Physical and chemical properties	
 9.1 Information on basic physical and chemical properties General Information 	
· Colour:	colourless - yellowish
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Not applicable.
· Boiling point or initial boiling point and boiling range	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not determined.
Decomposition temperature:	> +55 °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 at 20 °C:	0,895 g/cm ³
· 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 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
· 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
 Other safety characteristics 	
· Active oxygen	6,2 - 6,3 %

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 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.

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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

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 relevant for classification: 13122-18-4 tert-Butylperoxy-3,5,5-trimethylhexanoate LD50 Oral >5.000 mg/kg (rattus) LD50 >2.000 mg/kg (rattus) Dermal Inhalative LC50 / 4h >0,8 mg/l (rattus) 123-54-6 pentane-2,4-dione LD50 575 mg/kg (rattus) Oral LD50 Dermal 790 mg/kg (rattus) Inhalative LC50 / 4h 5,1 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 Based on available data, the classification criteria are not met. · 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 Based on available data, the classification criteria are not met. 11.2 Information on other hazards · Endocrine disrupting properties None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity	
· Aquatic toxicit	ty:
13122-18-4 tert	t-Butylperoxy-3,5,5-trimethylhexanoate
EC50 / 72h 0,3	13 mg/l (algae)
LC50 / 96h 7 m	ng/l (oncorhynchus mykiss)
EC50 / 48h >10	00 mg/l (daphnia)
123-54-6 penta	ne-2,4-dione
LC50 / 96h 72	mg/l (oncorhynchus mykiss)
EC50 / 48h 75	mg/l (daphnia)
	ce and degradability
· Degree of elim	nination:
 Classification 	n:
13122-18-4 tert	t-Butylperoxy-3,5,5-trimethylhexanoate
Degradation (Readily biodegradable) (OECD 301 D)	
123-54-6 penta	ne-2,4-dione
Degradation (F	Readily biodegradable) (OECD 301 C)

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· Partition coefficient: nOctan	iol/water: [Log Kow]	
13122-18-4 tert-Butylperoxy-3,	5,5-trimethylhexanoate	4,4 (25°C)
123-54-6 pentane-2,4-dione		0,68 (20°C
12.4 Mobility in soil 12.5 Results of PBT and vPvB	No further relevant information available. 3 assessment	
PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH,	
vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH,	annex XIII.
12.6 Endocrine disrupting properties 12.7 Other adverse effects Remark:	The product does not contain substances with endocrine disrupting properties. No further relevant information available. Very toxic for fish	
 Additional ecological informative General notes: 	ation: Also poisonous for fish and plankton in water bodies.	
	Very 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 cor	nsiderations	
13.1 Waste treatment method	S	
Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be streatment (e. g. thermal utilization) under observance of all official regulations. Must not be disposed together with household garbage. Do not allow product to	
Waste disposal key:	system. Please contact your hazardous waste disposers to assign the right EWC-(European was number.	ste catalog)-
Uncleaned packaging:		

SECTION 14: Transport information

· IATA	
· Class · Label	5.2 Organic peroxides. 5.2
₩2	
·IMDG	
· Class · Label	5.2 (P1) Organic peroxides. 5.2
ADR	
· 14.3 Transport hazard class(es)	
· IMDG · IATA	3,5,5-TRIMETHYLHEXANOATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, LIQUID (tert-BUTYL PEROXY-3,5,5- TRIMETHYLHEXANOATE), MARINE POLLUTANT ORGANIC PEROXIDE TYPE D, LIQUID (tert-BUTYL PEROXY-3,5,5- TRIMETHYLHEXANOATE)
 14.2 UN proper shipping name ADR 	UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (tert-BUTYL PEROXY-
 14.1 UN number or ID number ADR, IMDG, IATA 	UN3105

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contains environmentally hazardous substances: tert-BUTYL Y-3,5,5-TRIMETHYLHEXANOATE I (fish and tree) I (fish and tree) g: Organic peroxides. Protected from sources of heat. Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
Y-3,5,5-TRIMETHYLHEXANOATE I (fish and tree) I (fish and tree) g: Organic peroxides. Protected from sources of heat. Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
Y-3,5,5-TRIMETHYLHEXANOATE I (fish and tree) I (fish and tree) g: Organic peroxides. Protected from sources of heat. Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
Y-3,5,5-TRIMETHYLHEXANOATE I (fish and tree) I (fish and tree) g: Organic peroxides. Protected from sources of heat. Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
I (fish and tree) I (fish and tree) g: Organic peroxides. Protected from sources of heat. Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
l (fish and tree) g: Organic peroxides. Protected from sources of heat. Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
l (fish and tree) g: Organic peroxides. Protected from sources of heat. Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
g: Organic peroxides. Protected from sources of heat. Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
Protected from sources of heat. Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
Stow "separated from" SGG1-acids Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
Stow "separated from" SGG18-alkalis. See 7.2.6.3.2.
See 7.2.6.3.2.
licable.
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: E0
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 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) for the application of lower-tier 	r
requirements	50 t
Qualifying quantity (tonnes) for	r
the application of upper-tier	
requirements	200 t
REGULATION (EC) No	
1907/2006 ANNEX XVII	Conditions of restriction: 3
· DIRECTIVE 2011/65/EU on the roll	estriction 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 EXPLO	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPL	OSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 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.	

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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.

· Relevant phrases	 H226 Flammable liquid and vapour. H242 Heating may cause a fire. H302 Harmful if swallowed. H311 Toxic in contact with skin. H317 May cause an allergic skin reaction. H331 Toxic if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
• Department issuing SDS: • Contact:	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
· Version number of previous	
version:	7
 Abbreviations and acronyms: 	RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDC: International Maritime Code for Dangerous Goods IATA: 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 Inventory of Existing Commercial 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 DDS: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. D: Organic peroxides – Type C/D Acute Tox. 3: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Chronic 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. 	