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

· Trade name:	PEROXAN BHP-10
1.2 Relevant identified uses of	of the substance or mixture and uses advised against No further relevant information available.
· Application of the substance	e l
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 obtainat	ble
from:	 Environment protection / Security of labour Competent person: * Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com * Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com * Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com Security of labour
• 1.4 Emergency telephone	·
number:	- Tel: +49 2871 9902-0

SECTION 2: Hazards identification

01011011101		Jacon	
• 2.1 Classification • Classification acc		ce or mixture ulation (EC) No 1272/20)8
Org. Perox. F	H242 Heating	may cause a fire.	
Acute Tox. 3	H331 Toxic if	1331 Toxic if inhaled.	
Skin Corr. 1C	H314 Causes	t Causes severe skin burns and eye damage.	
Eye Dam. 1	H318 Causes	serious eye damage.	
Skin Sens. 1	H317 May cau	se an allergic skin reactio	٦.
Muta. 2	H341 Suspect	ed of causing genetic defe	ects.
Carc. 2	H351 Suspect	ed of causing cancer.	
STOT SE 3	•	se respiratory irritation.	
Aquatic Chronic 3	-	to aquatic life with long la	sting effects.
2.2 Label elements			
Labelling accordi			
Regulation (EC) N	lo 1272/2008	The product is classified	and labelled according to the CLP regulation.
 Hazard pictogram 	ns		\wedge
		GHS02 GHS05 GHS06	GHS08
· Signal word		Danger	
 Hazard-determin components of la Hazard statemen Hazard statemen 	abelling: ts	H317 May cause an alle H341 Suspected of caus H351 Suspected of caus H335 May cause respira H412 Harmful to aquatic	n burns and eye damage. gic skin reaction. ing genetic defects. ing cancer. tory irritation. life with long lasting effects. away from heat, hot surfaces, sparks, open flames and other ignition sources. No
		P264 Wash P273 Avoid P280 Wear P303+P361+P353 IF ON water P305+P351+P338 P305+P351+P338 IF IN prese P310	only in original packaging. thoroughly after handling. release to the environment. protective gloves/protective clothing/eye protection/face protection. I SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if nt and easy to do. Continue rinsing. diately call a POISON CENTER/doctor. locked up. (Contd. on page 2)
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Protect from sunlight.
Store at temperatures not exceeding +30°C. Keep cool.
Store separately.
Dispose of contents/container in accordance with local/regional/national/international regulations.

• 2.3 Other hazards • Results of PBT and vPvB assessment

	Salicit
· 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.

SECTION 3: Composition/information on ingredients

Dangerous components:		
CAS: 75-91-2	tert-butyl hydroperoxide	10-209
EINECS: 200-915-7	Flam. Lig. 3, H226; Org. Perox. F, H242; Acute Tox. 3, H311; Acute Tox. 2, H330; Muta. 2, H341;	
Reg-No.: 01-2119446670-40	Carc. 2, H351; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302;	
	Skin Sens. 1, H317	
	Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 %	
	Skin Sens. 1; H317: C ≥ 0,1 %	
	STOT SE 3; H335: C ≥ 5 %	
· Additional information:	tert-butyl hydroperoxide 70%ig in water	
	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: Immediately remove any clothing soiled by the product.

treatment needed	No further relevant information available.
 4.3 Indication of any immediate medical attention and special 	
and effects, both acute and delayed	No further relevant information available.
• 4.2 Most important symptoms	
After swallowing:	Drink plenty of water and provide fresh air. Call for a doctor immediately.
· After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
Alter Skin contact.	Immediately wash with water and soap and thise thoroughly. Immediately remove contaminated clothing.
· After skin contact:	Take affected persons into fresh air and keep quiet. Immediately wash with water and soap and rinse thoroughly.
· After inhalation:	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
	Take care of personal protection for the first aider.
	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
	Symptome of poleoning may over occur after several bours: therefore modical observation for at least 18

SECTION 5: Firefighting measures

 5.1 Extinguishing media
 Suitable 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.
 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.
 CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 CO3, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 CO4, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 CO5, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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.

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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 receptacles tightly sealed. Store in cool, dry place in tightly closed receptacles. 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. heavymetal compounds and amines). Oxidizing because of releasing oxygene. 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.
	bo 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	Stars in a seal location
storerooms and receptacles:	Store in a cool location. 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.

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· Further in	nformation about	
storage o		Keep container tightly sealed.
		Store in cool, dry conditions in well sealed receptacles.
		Protect from heat and direct sunlight.
		Protect from contamination. Store under lock and key and out of the reach of children.
		Store in a cool place.
		Storage in a collecting room is required.
· Recomm	nended storage	
tempera	ature (To maintain	
quality):		+5 +30 °C
 Storage of 		5.2
		No further relevant information available.
8.1 Contro	8: Exposure control bl parameters hts with limit values ire monitoring at the e:	Is/personal protection The product does not contain any relevant quantities of materials with critical values that have to be
SECTION 8.1 Contro Ingredien that requi workplace	8: Exposure control bl parameters hts with limit values ire monitoring at the e:	Is/personal protection
SECTION 8.1 Contro Ingredien that requi workplace DNELs	8: Exposure control of parameters the with limit values ire monitoring at the e:	Is/personal protection The product does not contain any relevant quantities of materials with critical values that have to be
SECTION 8.1 Contro Ingredien that requi workplace DNELs	8: Exposure control bl parameters hts with limit values ire monitoring at the e:	Is/personal protection The product does not contain any relevant quantities of materials with critical values that have to be
SECTION 8.1 Contro Ingredient that requi workplace DNELs 75-91-2 ter	8: Exposure control of parameters its with limit values ire monitoring at the e: rt-butyl hydroperoxide	Is/personal protection The product does not contain any relevant quantities of materials with critical values that have to be
SECTION 8.1 Contro Ingredient that requi workplace DNELs 75-91-2 ter Dermal	8: Exposure control of parameters its with limit values ire monitoring at the e: rt-butyl hydroperoxide	Is/personal protection The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
SECTION 8.1 Contro Ingredient that requi workplace DNELs 75-91-2 ter Dermal Inhalative	I 8: Exposure control of parameters its with limit values ire monitoring at the e: rt-butyl hydroperoxide DNEL Longterm System	Is/personal protection The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 0,21 mg/kg bw/day (Worker)
SECTION 8.1 Contro Ingredient that requi workplace DNELs 75-91-2 ter Dermal Inhalative	I 8: Exposure control of parameters its with limit values ire monitoring at the e: rt-butyl hydroperoxide DNEL Longterm System DNEL Acute Systemic	Is/personal protection The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 0,21 mg/kg bw/day (Worker) 85,2 mg/m3 (Worker) 28,4 mg/m3 (Worker)

DNEL Longte	rm Local 0,58 mg/m3 (Worker)		
· PNECs			
75-91-2 tert-butyl hydroperoxide			
PNEC Marinewater sed	0,001 mg/kg sed dw		
PNEC Freshwater	0,002 mg/l (AF 1.000)		
PNEC Seawater	0 mg/l (AF 10.000)		
PNEC Freshwater sed	0,006 mg/kg sed dw (-)		
PNEC Soil	0,166 mg/kg soil dw (AF 1.000)		
PNEC STP	0,17 mg/l (AF 100)		
· Additional informatio	n: The lists valid during the making were used as basis.		
· 8.2 Exposure controls			
Appropriate engineeri	ng		
controls	No further data; see section 7.		
	neasures, such as personal protective equipment		
General protective ar			
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.		
	Avoid contact with the eyes and skin.		
	Do not eat, drink, smoke or sniff while working.		
	Use skin protection cream for skin protection.		
· Respiratory protectio	Be sure to clean skin thoroughly after work and before breaks. n: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer		
Respiratory protectio	exposure use self-contained respiratory protective device.		
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.		
	Filter A2		
• Hand protection	Only use chemical-protective gloves with CE-labelling of category III.		
	Selection of the glove material on consideration of the penetration times, rates of diffusion and the		
	degradation		
	Protective gloves		
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of		
indicital of gloves	quality and varies from manufacturer to manufacturer.		
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The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be

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- Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
- Penetration time of glove material
- · Eye/face protection

· Body protection:

Tightly sealed goggles



observed.

Protective work clothing

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chemical properties General Information 	
Colour:	Caleurlana
	Colourless
· Odour:	Pungent
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:	Not determined.
 Decomposition temperature: 	+80 °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 environmentation and on safety. 	ent,
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour
Explosive properties.	mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.
Evaporation rate	
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
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· Organic peroxides	Heating may cause a fire.	
 Corrosive to metals 	Void	
· Desensitised explosives	Void	
SECTION 10: Stability and re	activity	
10.1 Reactivity 10.2 Chemical stability · Thermal decomposition /	No further relevant information available.	
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.	
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 Toxic if inhaled.

· Acute toxicity To			Toxic if inhaled.
	· LD/LC50 values relevant for cla		
· LD/LC50	values rel	levant for cla	assification:
75-91-2 te	rt-butyl hy	droperoxide	
Oral	LD50	805 mg/kg /((70%) (rattus)
Dermal	LD50	633 mg/kg /((70%) (cuniculosus)
Inhalative	LC50 / 4h	1,2 mg/l /(70	%) (rattus)
Skin corr	osion/irrita	ation	Causes severe skin burns and eye damage.
· Serious e	 Serious eye damage/irritation 		Causes serious eye damage.
 Respirato 	ory or skin		
sensitisa	tion		May cause an allergic skin reaction.
· Germ cel	 Germ cell mutagenicity 		Suspected of causing genetic defects.
· Carcinogenicity			Suspected of causing cancer.
· Reproductive toxicity		ity	Based on available data, the classification criteria are not met.
STOT-single exposure		ure	May cause respiratory irritation.
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 Inform	mation on	other hazard	ds
· Endocrine disrupting properties			
None of the ingredients is listed.			

SECTION 12: Ecological information

· 12.1 Toxicit	ty	
· Aquatic toxicity:		
75-91-2 tert-butyl hydroperoxide		
EC50 / 72h	2,1 mg/l /(70%) (selenastrum capricornutum)	
LC50 / 96h	42,3 mg/l /(70%) (pimephales promelas)	
EC50	24,3 mg/l /(70%) (activa sludge)	
EC50 / 48h	20 mg/l /(70%) (daphnia magna)	
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12.2 Persistence and degrada	ibility	
· Classification:		
75-91-2 tert-butyl hydroperoxi	ide	
Degradation (Not readily biode		
12.3 Bioaccumulative potenti		
Partition coefficient: nOctar		
75-91-2 tert-butyl hydroperoxi	de	0,85 (30 °C
110-05-4 di-tert-butyl peroxide		3,2 (22°C)
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvE	3 assessment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to	o REACH, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to	o REACH, annex XIII.
12.6 Endocrine disrupting		
properties	The product does not contain substances with endocrine disrupting properties	S.
12.7 Other adverse effects	No further relevant information available.	
· Remark:	Harmful to fish	
· Additional ecological inform	ation:	
General notes:	Harmful to aquatic organisms	
	Must not reach sewage water or drainage ditch undiluted or unneutralised.	
	Water hazard class 3 (German Regulation) (Self-assessment): extremely haze	ardous for water
	Do not allow product to reach ground water, water course or sewage system,	
	Danger to drinking water if even extremely small quantities leak into the groun	nd.

SECTION 13: Disposal cons	iderations
 13.1 Waste treatment methods Recommendation 	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage
· Waste disposal key:	system. Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.
 Uncleaned packaging: Recommendation: 	This material and its container must be disposed of as hazardous waste.

SECTION 14: Transport information

 14.1 UN number or ID number ADR, IMDG, IATA 	UN3109
· 14.2 UN proper shipping name	
ADR	UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (tert-BUTYL HYDROPEROXIDE)
· IMDG, IATA	ORGANIC PEROXIDE TYPE F, LIQUID (tert-BUTYL HYDROPEROXIDE)
· 14.3 Transport hazard class(es)	
ADR	
· Class	5.2 (P1) Organic peroxides.
· Label	5.2+8
·IMDG	
· Class	5.2 Organic peroxides.
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· Label	5.2/8	
· Class · Label	5.2 Organic peroxides. 5.2 (8)	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
• 14.5 Environmental hazards: • Marine pollutant:	No	
 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category Stowage Code Segregation Code 	Warning: Organic peroxides. 539 D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.	
· 14.7 Maritime transport in bulk according to IMO instr	uments Not applicable.	
· Transport/Additional information:		
 ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code 	125 ml Code: E0 Not permitted as Excepted Quantity 2 D	
· RID / GGVSEB:	like ADR	
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	125 ml Code: E0 Not permitted as Excepted Quantity	

SECTION 15: Regulatory information

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

 Directive 2012/18/EU Named dangerous substances ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements 	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII	r 200 t Conditions of restriction: 3
· DIRECTIVE 2011/65/EU on the r	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
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 informat	ion
This information is based on our p not establish a legally valid contra	resent knowledge. However, this shall not constitute a guarantee for any specific product features and shall ctual relationship.
 Department issuing SDS: Contact: 	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
 Version number of previous version: Abbreviations and acronyms: 	6 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
	 Neglential transport of Dangerous Goods by Rail) IcAco: International Transport of Dangerous Goods by Rail) ICAC: 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) 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 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 vPVB: very Persistent and very Bioaccumulative Flam. Liq, 3: Flammable liquids – Category 3 Org. Perox. F: Organic peroxides – Type E/F Acute Tox, 3: Acute toxicity – Category 4 Acute Tox, 3: Acute toxicity – Category 1 Skin Corr. 1C: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 2 Stori S: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
* * Data compared to the previous version altered.	