

Version: 12 (replaces version 11)



Revision: 22.02.2023

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

· 1.1 Product identifier

DEDOVAN DO M ±/A

· Trade name:	PERUXAN PU IVI +/4
· 1.2 Relevant identified uses of th	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 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 identific	ation
SEL LILIN / Hazarde Idontitid	19100

SECTION 2: Hazards identification

 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 		
Org. Perox. C	H242	Heating may cause a fire.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Repr. 1B	H360F	May damage fertility.
Aquatic Chronic 2	H411	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 GB CLP regulation.



 Signal word

· Hazard-determining

GHS02 GHS07 GHS08 GHS09 Danger

components of labelling:	tert-butyl 2	2-ethylperoxyhexanoate
 Hazard statements 	H242 He	eating may cause a fire.
	H317 Ma	ay cause an allergic skin reaction.
	H360F Ma	ay damage fertility.
	H411 To	xic 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+P37	78 In case of fire: Use CO2, powder or water spray to extinguish.
	P410	Protect from sunlight.
	D444 . D0	25 Chang at tangang mat average ding 100°C. Kang anal

Restricted to professional users.

P411+P235 Store at temperatures not exceeding +20°C. Keep cool.

- P420 Store separately.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations

· Additional information:

2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII. · vPvB: The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 Dangerous components: 		
CAS: 3006-82-4	tert-butyl 2-ethylperoxyhexanoate	90-100%
EINECS: 221-110-7	Org. Perox. C, H242; Repr. 1B, H360F; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Skin Sens.	
Reg-No.: 01-2119498310-40	1, H317	

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Trade name: PEROXAN PO M +/4

	(C	contd. of page 1)
CAS: 128-37-0	Butylated hydroxytoluene	5-10%
EINECS: 204-881-4	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
Reg-No.: 01-2119555270-46		
01-2119565113-46		
· 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:
 CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 5.2 Special hazards arising from the substance or mixture
 Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
 5.3 Advice for firefighters
 Protective equipment:
 Do not inhale explosion gases or combustion gases.
 Cool endangered receptacles with water spray. Self-protection first!

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and 	
emergency procedures	Keep away from ignition sources.
	In case of further temperature should be cooled with waterspray from a safe distance.
	Wear breathing apparatus with filter A during decomposition of materials.
	Wear protective equipment. Keep unprotected persons away.
· 6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.
-	
	Do not allow to enter sewers/ surface or ground water.
• 6.3 Methods and material for	
containment and cleaning up:	Ensure adequate ventilation.
containinent und cicuning 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 away from heat and direct sunlight.
	Open and handle receptacle with care.

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

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	(Contd. of page 2
	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	\mathbf{V}
explosion protection:	Protect from heat.
	Protect against electrostatic charges.
	Prevent impact and friction.
	Use explosion-proof apparatus / fittings and spark-proof tools.
	Fumes can combine with air to form an explosive mixture.
	Wear shoes with conductive soles.
	Formation of flammable or explosive gas/air-mixtures is possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
7.2 Conditions for safe storage,	including any incompatibilities
Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
 Requirements to be met by 	
storerooms and receptacles:	Store only in the original receptacle.
	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
Information about storage in	
one common storage facility:	Do not store or park organic peroxide together with heavy metal compounds and amines.
- Further information about	Store away from foodstuffs, drinks and feeding stuffs.
· Further information about	Protect from heat and direct sunlight.
storage conditions:	0
storage conditions:	Protect from contamination.
storage conditions: · Recommended storage	0
storage conditions:	0
storage conditions: · Recommended storage temperature (To maintain quality):	Protect from contamination.
storage conditions: · Recommended storage temperature (To maintain quality): · Control temperature:	Protect from contamination.
storage conditions: [.] Recommended storage temperature (To maintain quality):	Protect from contamination. max.: +15 °C +20 °C

SECTION 8: Exposure controls/personal protection

· 8.1 Contr	ol parameters			
· Ingredie	· Ingredients with limit values that require monitoring at the workplace:			
128-37-0	Butylated hydroxytoluen	e		
WEL (Gre	at Britain) Long-term valu	ie: 10 mg/m ³		
· DNELs				
3006-82-4	tert-butyl 2-ethylperoxy	hexanoate		
Dermal	DNEL Longterm System	5.6 mg/kg bw/day (Worker)		
Inhalative	DNEL Longterm System	9.8 mg/m3 (Worker)		
128-37-0	Butylated hydroxytoluen	e		
Dermal	DNEL Longterm System	0.5 mg/kg bw/day (Worker)		
Inhalative	DNEL Longterm System	1.76 mg/m3 (Worker)		
· PNECs				
3006-82-4	tert-butyl 2-ethylperoxy	hexanoate		
PNEC Ma	rinewater sed 0.0622 mg/	/kg sed dw		
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	(Contd. of page
PNEC Freshwater	0.002 mg/l (AF 50)
PNEC Freshwater sed	0.622 mg/kg sed dw
PNEC STP	0.64 mg/l (AF 100)
PNEC Marinewater	0 mg/l (AF 500)
128-37-0 Butylated hyd	Iroxytoluene
PNEC Marinewater sed	0.046 mg/kg sed dw (-)
PNEC Freshwater	0.000199 mg/l (AF 1.000)
PNEC Seawater	0.00002 mg/l (AF 10.000)
PNEC Freshwater sed	0.458 mg/kg sed dw (-)
PNEC Soil	0.054 mg/kg soil dw (-)
PNEC STP 0.017 mg/l (AF 100)	
· Additional informatio	
8.2 Exposure controls Appropriate engineeri controls Individual protection General protective ar	No further data; see section 7. measures, 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. 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.
 Respiratory protection 	
· 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 quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR
 Penetration time of g material 	Neoprene glove The exact break trough time has to be found out by the manufacturer of the protective gloves and has to b observed
· Eye/face protection	Tightly sealed goggles
· Body protection:	Protective work clothing
SECTION 9: Physica	I and chemical properties
9.1 Information on bas General Information	ic physical and chemical properties
· Colour:	colourless - yellowish
· Odour:	Characteristic
Odour threshold:	Not determined.

- Odour threshold:
 Melting point/freezing point:
 Boiling point or initial boiling point and boiling range
 Flammability
 Lower and upper explosion limit

- · Lower:
- · Upper: · Flash point:

Not applicable. Not applicable. Not applicable.

Not determined. Not determined. > SADT

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· Decomposition temperature:	+35 °C (SADT)
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	13 mPas
· Solubility	
· water:	Undetermined.
 Partition coefficient n-octanol/water (log value) 	not determined
Vapour pressure:	Not determined.
Density and/or relative density	
· Density at 20 °C:	0.898 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
Appearance:	
	Fluid
· Form:	
Important information on protection of health and environment	,
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
• Self-reactive substances and mixtures • Pyrophoric liquids	Void Void
 Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids 	Void Void Void
 Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures 	Void Void
 Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in 	Void Void Void Void
 Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water 	Void Void Void Void
 Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids 	Void Void Void Void Void
 Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids 	Void Void Void Void Void Void Void
 Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids Organic peroxides 	Void Void Void Void Void
 Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in 	Void Void Void Void Void Void Void

SECTION 10: Stability and reactivity

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. No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat.
Self-accelerating decomposition at SADT.
No further relevant information available.
Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-metal compounds and amines).
Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications.



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· Additional information:	Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

Acute to> LD/LC50		levant for cl	Based on available data, the classification criteria are not met. assification:	
3006-82-4	tert-butyl	2-ethylperox	kyhexanoate	
Oral	LD50	>10,000 mg		
Dermal	LD50	14,142-20,0	00 mg/kg (rabbit)	
Inhalative	LC50 / 4h	42.2 mg/l (r	attus)	
128-37-0 E	Butylated h	ydroxytolue	ene	
Oral	LD50	>2,000 mg/	kg (rattus)	
Dermal	LD50	>2,000 mg/	kg (rabbit)	
· Skin corr	osion/irrit	ation	Based on available data, the classification criteria are not met.	
Serious eye damage/irritation Based on available data, the classification criteria are not met.				
•	ory or skin			
sensitisation			May cause an allergic skin reaction.	
 Germ cell mutagenicity 		icity	Based on available data, the classification criteria are not met.	
 Carcinogenicity 			Based on available data, the classification criteria are not met.	
			May damage fertility.	
• STOT-single exposure			Based on available data, the classification criteria are not met.	
• STOT-repeated exposure		osure	Based on available data, the classification criteria are not met.	
 Aspiration hazard 			Based on available data, the classification criteria are not met.	
11.2 Infor	mation on	other hazar	ds	
· Endocrin	e disruptii	ng propertie	S	
128-37-0	Butvlated h	vdroxytoluer		List

SECTION 12: Ecological information

Aquatic toxicity:	
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)	
128-37-0 Butylated hydroxytoluene	
LC0 /96h >0.57 mg/l (fish)	
EC50 / 48h 0.61 mg/l (daphnia)	
IC50 / 72h >0.4 mg/l (algae)	
12.2 Persistence and degradability	
Degree of elimination:	
· Classification:	
3006-82-4 tert-butyl 2-ethylperoxyhexanoate	
Degradation (Readily biodegradable) (OECD 301 D)	
128-37-0 Butylated hydroxytoluene	
Degradation (Not readily biodegradable)	
12.3 Bioaccumulative potential	
· Partition coefficient: nOctanol/water: [Log Kow]	
3006-82-4 tert-butyl 2-ethylperoxyhexanoate	4,79 (20°C)
128-37-0 Butylated hydroxytoluene	5,1
67-56-1 methanol	-0,77 (20°C)
Bioconcentration factor (BCF)	
128-37-0 Butylated hydroxytoluene	
BCF 1,277	
12.4 Mobility in soil No further relevant information available.	

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· vPvB:	(Contd. of page) The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.	
12.6 Endocrine disrupting	3 - - - ,	
properties	For information on endocrine disrupting properties see section 11.	
12.7 Other adverse effects	Toxic for fish	
· Additional ecological inform		
· General notes:	Toxic for aquatic organisms	
	Also poisonous for fish and plankton in water bodies. Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water	
	Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.	
SECTION 13: Disposal cor	nsiderations	
13.1 Waste treatment method	s	
Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a spec	

 Itreatment (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

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

Waste disposal key:
 Uncleaned packaging:

· Recommendation:

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

system.

number.

14.1 UN number or ID number	
· ADR, IMDG	UN3113
14.2 UN proper shipping name	
ADR	UN3113 ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE
	CONTROLLED (tert-BUTYLPEROXY-2-ETHYLHEXANOATE), ENVIRONMENTALLY HAZARDOUS
·IMDG	ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLE
	(tert-BUTYLPEROXY-2-ETHYLHEXANOATE), MARINE POLLUTANT
14.3 Transport hazard class(es)	
ADR	
A A A A A A A A A A A A A A A A A A A	
· Class	5.2 (P2) Organic peroxides.
·Label	5.2
·IMDG	
· Class	5.2 Organic peroxides.
·Label	5.2
IATA	
· Class	X
· Label	Х
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

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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:	+20 °C
Emergency temperature:	+25 °C

SECTION 15: Regulatory information

 Regulated explosives precurs 	iors
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precur	sors
None of the ingredients is listed.	
· Reportable poisons	
None of the ingredients is listed.	
 Directive 2012/18/EU Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements 	50 t or 200 t
II	restriction of the use of certain hazardous substances in electrical and electronic equipment – Ann
None of the ingredients is listed.	
· Annex I - RESTRICTED EXPL	OSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXP	LOSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004	on drug precursors
None of the ingredients is listed.	
 Regulation (EC) No 111/2005 precursors 	laying 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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· National regulations:

· Other regulations, limitations and prohibitive regulations

• Please note: Take care of the respective local regulations.

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	 H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H360F May damage fertility. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
 Department issuing SDS: 	Environment protection / Security of labour
Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
 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 (UK REACH)
	PNEC: Predicted No-Effect Concentration (UK REACH)
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
	Org. Perox. C: Organic peroxides – Type C/D
	Skin Sens. 1: Skin sensitisation – Category 1 Repr. 1B: Reproductive toxicity – Category 1B
	Aquatic Acute 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
	Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 * Data compared to the previous version altered. 	