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

· 1.1 Product identifier

**PEROXAN BP-Pulver 50 W-F** 

· Trade name:	PEROXAN BP-Pulver 50 V
· 1.2 Relevant identified uses of th	e substance or mixture and uses advised against No further relevant information available.
<ul> <li>Application of the substance / the mixture</li> </ul>	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
<ul> <li>Further information obtainable from:</li> <li>1.4 Emergency telephone number:</li> </ul>	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 substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Org. Perox. D H242 Heating may cause a fire.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements
<ul> <li>Labelling according to</li> </ul>
Regulation (EC) No 1272/2008
Hazard pictograms

The product is classified and labelled according to the GB CLP regulation.

	GHS02 GHS07	
	GH302 GH307	
· Signal word	Danger	
· Hazard-determining		
components of labelling:	dibenzoyl peroxide	
· Hazard statements	H242 Heating may	
	H319 Causes serie	
		an allergic skin reaction.
· 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.
	P264	Wash thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
		protection.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P410	Protect from sunlight.
	P411+P235	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.
<ul> <li>Additional information:</li> <li>2.3 Other hazards</li> </ul>	Restricted to profe	ssional users.
Results of PBT and vPvB asse	ssment	
· PBT:	The substances in	the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.
· vPvB:		the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

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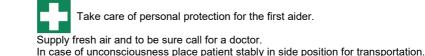
## **SECTION 3: Composition/information on ingredients**

## · 3 2 Mixtures

<ul> <li>Dangerous components:</li> </ul>		
CAS: 84-61-7 EINECS: 201-545-9 Index number: 607-719-00-4 Reg-No.: 01-2119978223-34	dicyclohexyl phthalate Aquatic Chronic 3, H412	40-50%
CAS: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0 Reg-No.: 01-2119511472-50		40-50%
SVHC		
84-61-7 dicyclohexyl phthala	te	
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:



Take care of personal protection for the first aider.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After inhalation:

· After skin contact:

· After eye contact:

After swallowing:

· 4.2 Most important symptoms and effects, both acute and delaved

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

No further relevant information available.

Immediately remove contaminated clothing.

If symptoms persist consult doctor.

Take affected persons into fresh air and keep quiet.

Immediately wash with water and soap and rinse thoroughly.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

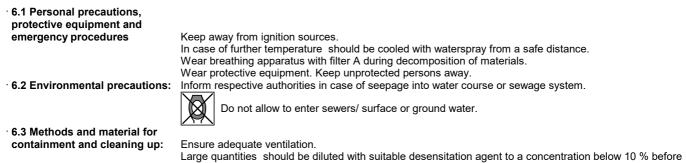
Additional information

• 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**



disposal Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government regulations.

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6.4 Reference to other sections	(Contd. of page 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 ste	Drage
7.1 Precautions for safe handling	Keep away from heat and direct sunlight. Open and handle receptacle with care. Prevent formation of dust. 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. heav 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.
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. Dust can combine with air to form an explosive mixture. Substance/product is oxidising when dry. Product is not explosive. However, formation of explosive air/dust mixtures are possible. Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
7.2 Conditions for safe storage,	
Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
<ul> <li>Requirements to be met by storerooms and receptacles:</li> </ul>	Store only in the original receptacle. Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/product.
<ul> <li>Information about storage in one common storage facility:</li> </ul>	Do not store or park organic peroxide together with heavy metal compounds and amines. Store away from foodstuffs, drinks and feeding stuffs.
· Further information about storage conditions:	Keep container tightly sealed. Protect from heat and direct sunlight. Protect from contamination.
· Recommended storage temperature (To maintain	
quality): 7.3 Specific end use(s)	0 +30 °C No further relevant information available.
SECTION 8: Exposure contro	ols/personal protection
8.1 Control parameters	
<ul> <li>Ingredients with limit values that 84-61-7 dicyclohexyl phthalate</li> </ul>	at require monitoring at the workplace:
WEL (Great Britain) Long-term va	lue: 5 mg/m³
94-36-0 dibenzoyl peroxide	

Ingredients with limit values that require monitoring at the workplace:	
84-61-7 dicyclohexyl phthalate	
WEL (Great Britain) Long-term value: 5 mg/m <sup>3</sup>	
94-36-0 dibenzoyl peroxide	
WEL (Great Britain) Long-term value: 5 mg/m <sup>3</sup>	
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		(Contd. of page 3)
· DNELs		
84-61-7 dicyclohexyl phtha		
	-	0.5 mg/kg bw/day (Worker)
Inhalative DNEL Longterm	-	35.2 mg/m3 (Worker)
94-36-0 dibenzoyl peroxide		
		2 mg/kg bw/day (General population)
		13.3 mg/kg bw/day (Worker)
Inhalative DNEL Longterm	System	39 mg/m3 (Worker)
· PNECs	-1-4-	
84-61-7 dicyclohexyl phtha		r ood dw
PNEC Marinewater sed 0.10 PNEC Freshwater 0.0		
	04 mg/l ( 6 mg/kg	
	1 mg/kg	
	mg/l (AF	
	ng/I (AF 5	
94-36-0 dibenzoyl peroxide	• •	
PNEC Marinewater sed 0.0		n sed dw
		/I (AF 50)
	13 mg/kg	
	5 mg/l	j oou uw
		g/l (AF 500)
· Additional information:		he lists valid during the making were used as basis.
<ul> <li>8.2 Exposure controls</li> <li>Appropriate engineering controls</li> <li>Individual protection mea</li> <li>General protective and hygienic measures:</li> <li>Respiratory protection:</li> </ul>	isures, s T K Ir V S A A C U U B	As further data; see section 7. <b>uch as personal protective equipment</b> The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. mmediately remove all soiled and contaminated clothing Vash hands before breaks and at the end of work. Store protective clothing separately. Woid close or long term contact with the skin. Woid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Jse skin protection cream for skin protection. Se sure to clean skin thoroughly after work and before breaks. Lot necessary if room is well-ventilated. We suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter P2
• Hand protection		Duly 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
· Penetration time of glov	q B F N N	The selection of the suitable gloves does not only depend on the material, but also on further marks of juality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Jitrile rubber, NBR Jeoprene
• Eye/face protection	Т	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
		Tightly sealed goggles

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## Trade name: PEROXAN BP-Pulver 50 W-F

Body protection:

Active oxygen



Protective work clothing

#### **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information Colour: Whitish · Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: Not applicable. Boiling point or initial boiling point and boiling range Not applicable. · Flammability May cause fire. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable. Decomposition temperature: +60 °C (SADT) · pH Not applicable. · Viscosity: Kinematic viscosity Not applicable. · Dynamic: Not applicable. · Solubility water: Undetermined. · Partition coefficient n-octanol/water (log value) not determined · Vapour pressure: Not applicable. · Density and/or relative density · Density at 20 °C: 1.12 g/cm<sup>3</sup> Relative density Not determined. Vapour density Not applicable. · 9.2 Other information Appearance: Solid · 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/dust mixtures are possible. · Change in condition · Evaporation rate Not applicable. 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 $\cdot$ 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

3.2 - 3.5 %

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## Trade name: PEROXAN BP-Pulver 50 W-F

**SECTION 10: Stability and reactivity**  10.1 Reactivity No further relevant information available. 10.2 Chemical stability Thermal decomposition / conditions to be avoided: SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous selfaccelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat. · 10.3 Possibility of hazardous 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:		
84-61-7 dicyclohexyl phthalate		
Oral LD50 >2,000 mg/kg (rattus)		
94-36-0 dibenzoyl peroxide		
Oral LD50 >5,000 mg/kg (rattus)		
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
· Serious eye damage/irritation	Causes serious eye irritation.	
Respiratory or skin		
sensitisation	May cause an allergic skin reaction.	
<ul> <li>Germ cell mutagenicity</li> </ul>	Based on available data, the classification criteria are not met.	
<ul> <li>Carcinogenicity</li> </ul>	Based on available data, the classification criteria are not met.	
<ul> <li>Reproductive toxicity</li> </ul>	Based on available data, the classification criteria are not met.	
<ul> <li>STOT-single exposure</li> </ul>	Based on available data, the classification criteria are not met.	
<ul> <li>STOT-repeated exposure</li> </ul>	Based on available data, the classification criteria are not met.	
<ul> <li>Aspiration hazard</li> </ul>	Based on available data, the classification criteria are not met.	
11.2 Information on other hazards		
<ul> <li>Endocrine disrupting properties</li> </ul>	S	
84-61-7 dicyclohexyl phthalate		List I; II

### **SECTION 12: Ecological information**

12.1 Toxicit	у
· Aquatic tox	kicity:
94-36-0 dibe	enzoyl peroxide
EC50 / 72h	0.0711 mg/l (pseudokirchneriella subcapitata)
LC50 / 96h	0.0602 mg/l (oncorhynchus mykiss)
EC50 / 48h	110 mg/l (daphnia)
12.2 Persist Degree of e	ence and degradability elimination:
· Classificat	tion:
84-61-7 dicy	/clohexyl phthalate
Degradation	(Readily biodegradable)
94-36-0 dibe	enzoyl peroxide
Degradation	(Readily biodegradable) (OECD 301 D)
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12.3 Bioaccumulative poter	ntial	
Partition coefficient: nOct	tanol/water: [Log Kow]	
84-61-7 dicyclohexyl phthala	ite	4,82 (25 °C
94-36-0 dibenzoyl peroxide		3,2 (20 °C)
Bioconcentration factor (B	JCF)	
84-61-7 dicyclohexyl phthal	late	
BCF 85		
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vP	'vB 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 LIK DEACH, appay VIII
40.0 Englished all successful and		IO ON REAGH, annex Ann.
12.6 Endocrine disrupting		IO ON NEACH, annex An.
12.6 Endocrine disrupting properties	·	to or reach, annes An.
properties	For information on endocrine disrupting properties see section 11.	to ok reach, annex ann.
properties 12.7 Other adverse effects	For information on endocrine disrupting properties see section 11.	U UK KEACH, alinex All.
properties 12.7 Other adverse effects Remark:	For information on endocrine disrupting properties see section 11.	
properties 12.7 Other adverse effects Remark:	For information on endocrine disrupting properties see section 11. Very toxic for fish rmation:	U UK KEACH, alliex All.
properties 12.7 Other adverse effects Remark: Additional ecological infor	For information on endocrine disrupting properties see section 11. Very toxic for fish rmation: Also poisonous for fish and plankton in water bodies.	U UK KEACH, annex Ann.
12.7 Other adverse effects · Remark: · Additional ecological infor	For information on endocrine disrupting properties see section 11. Very toxic for fish rmation: Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms	
properties 12.7 Other adverse effects Remark: Additional ecological infor	For information on endocrine disrupting properties see section 11. Very toxic for fish rmation: Also poisonous for fish and plankton in water bodies.	or water

SECTION 13: Disposal cor	nsiderations
<ul> <li>13.1 Waste treatment method</li> <li>Recommendation</li> </ul>	<b>s</b> After diluting with a suitable inert solid material to 10 %, the product 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.
· Waste disposal key:	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.
<ul> <li>Uncleaned packaging:</li> <li>Recommendation:</li> </ul>	This material and its container must be disposed of as hazardous waste.

## **SECTION 14: Transport information** · 14.1 UN number or ID number UN3106 · ADR, IMDG, IATA · 14.2 UN proper shipping name · ADR UN3106 ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE), ENVIRONMENTALLY HAZARDOUS ·IMDG ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE), MARINE POLLUTANT ·IATA ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE) · 14.3 Transport hazard class(es) · ADR Class 5.2 (P1) Organic peroxides. · Label 5.2 ·IMDG · Class 5.2 Organic peroxides. (Contd. on page 8) GB -



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·Label	5.2
· Class	5.2 Organic peroxides.
· Label	5.2
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	Void
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: DIBENZOYL PEROXIDE
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>Segregation Code</li> </ul>	Warning: Organic peroxides. - D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· 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	500 g Code: E0 Not permitted as Excepted Quantity 2
· Tunnel restriction code	D
· RID / GGVSEB:	like ADR
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	500 g Code: E0 Not permitted as Excepted Quantity

## SECTION 15: Regulatory information

<ul> <li>15.1 Safety, health and environi</li> <li>Poisons Act</li> </ul>	mental regulations/legislation specific for the substance or mixture
Regulated explosives precurs	ors
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precurs	sors
None of the ingredients is listed.	
· Reportable poisons	
None of the ingredients is listed.	
<ul> <li>Directive 2012/18/EU</li> <li>Qualifying quantity (tonnes) fo the application of lower-tier requirements</li> <li>Qualifying quantity (tonnes) fo</li> </ul>	50 t
the application of upper-tier requirements	200 t
DIRECTIVE 2011/65/EU on the	restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
Annex I - RESTRICTED EXPLO	DSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
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· Annex II - REPORTABLE	EXPLOSIVES PRECURSORS
None of the ingredients is list	ted.
· Regulation (EC) No 273/2	004 on drug precursors
None of the ingredients is list	ted.
<ul> <li>Regulation (EC) No 111/2 precursors</li> </ul>	005 laying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is list	ted.
· National regulations:	
· Other regulations, limitat	ions and prohibitive regulations
Please note:	Take care of the respective local regulations.
· Substances of very high of	concern (SVHC) according to UK REACH
84-61-7 dicyclohexyl phthala	te
Substances of very high c	oncern (SVHC) according to REACH, Article 57

### **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	H241 Heating may cause a fire or explosion. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
<ul> <li>Department issuing SDS:</li> </ul>	Environment protection / Security of labour
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
<ul> <li>Abbreviations and acronyms:</li> </ul>	RID: Règlement 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 relating automation of the matching and the matching and the matching and the matching and the second relating automatic provided the matching and
	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. B: Organic peroxides – Type B Org. Perox. D: Organic peroxides – Type C/D
	Eye Init. 2: Serious eye damage/eye irritation – Category 2
	Skin Sens. 1: Skin sensitisation – Category 1
	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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
• * Data compared to the	Aquate ontoine 5. nazaroous to the aquate environment - long-term aquate hazard - Category 5
previous version altered.	