

Printing date 02.04.2024 Version: 6 (replaces version 5) Revision: 15.02.2023

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

· 1.1 Product identifier

PEROXAN BP-40 WS · Trade name:

1.2 Relevant identified uses of the 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

Environment protection / Security of labour from:

Qualified person: E-mail: msds@pergan.com

1.4 Emergency telephone

- Tel: +49 2871 9902-0 number:

#### **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

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

Org. Perox. F H242 Heating may cause a fire. Eye Irrit. 2 H319 Causes serious eye irritation. 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.



Warning · Signal word

· Hazard-determining

components of labelling:

dibenzoyl peroxide

**Hazard statements** H242 Heating may cause a fire. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H410 Very 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. 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 +25°C. Keep cool.

P420 Store separately.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations

· Additional information: \* The product is a suspension with low viscosity and can separate easily. Stirring before use is absolutely essential.

· 2.3 Other hazards

Results of PBT and vPvB assessment

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

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Determination of endocrinedisrupting properties

The product does not contain substances with endocrine disrupting properties.

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

#### · 3 2 Mixtures

· Dangerous components:		
CAS: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0 Reg-No.: 01-2119511472-50		40-50%
CAS: 56-81-5 EINECS: 200-289-5 Reg-No.: 01-2119471987-18	glycerol substance with a Community workplace exposure limit	2,5-5%
CAS: 9014-85-1 NLP: 500-022-5 Reg-No.: 01-2119954393-33	Ethoxylated-2,4,7,9-tetramethyl-5-decyne-4,7-diol Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 3, H412	0,1-1%
· 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.

· **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 affected persons into fresh air and keep quiet.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

Immediately remove contaminated clothing.

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

**After swallowing:** If symptoms persist consult doctor.

 4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate

medical attention and special

treatment needed 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.

No further relevant information available.

Hydrocarbons, carbondioxide and -monoxid.

· 5.3 Advice for firefighters

Protective equipment:
 Additional information
 Do not inhale explosion gases or combustion gases.
 Cool endangered receptacles with water spray.

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.

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6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before

disposal.

Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government

regulations.

• 6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

In case of large spillage the environmental authority should be informed.

### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe

handling Keep away from heat and direct sunlight.

Open and handle receptacle with care.

Prevent formation of aerosols.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Do not refill residue into storage receptacles. Restrict the quantity stored at the work place.

Before break and at the end of work hands should be thoroughly washed.

Only use tools made of suitable materials (e. g. polyethylene or stainless steel).

Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-

metal compounds and amines). While using do not eat, drink or smoke. Do not generate flames or sparks.

Keep product and emptied container away from heat and sources of ignition.

Avoid shock and friction.

Take precautionary measures against static discharges.



Do not smoke.

Information about fire - and explosion protection:

Protect from heat.

Protect against electrostatic charges.

Prevent impact and friction.

Use explosion-proof apparatus / fittings and spark-proof tools. Fumes can combine with air to form an explosive mixture.



Wear 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.

 $\cdot\,\textbf{7.2 Conditions for safe storage, including any incompatibilities}$ 

· Storage: · Requirements to be met by Pay attention to the special requirements of your local autorithies for storing dangerous goods.

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.

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.
Storage in a collecting room is required.

Recommended storage temperature (To maintain quality):

+5 .... +25 °C

Storage class: 5.2

· 7.3 Specific end use(s) No further relevant information available.

IF.



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#### **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:  94-36-0 dibenzoyl peroxide  OEL (Ireland)			
OEL (Ireland)  Long-term value: 5 mg/m³ Sens  WEL (Great Britain)  56-81-5 glycerol  OEL (Ireland)  Unog-term value: 10 mg/m³ WEL (Great Britain)  DNELs  94-36-0 dibenzoyl peroxide  Oral  DNEL Longterm System 2 mg/kg bw/day (General population)			
Sens WEL (Great Britain)  56-81-5 glycerol OEL (Ireland) WEL (Great Britain)  VDNELs  94-36-0 dibenzoyl peroxide Oral  DNEL Longterm System 2 mg/kg bw/day (General population)			
56-81-5 glycerol  OEL (Ireland)			
OEL (Ireland) Long-term value: 10 mg/m³ WEL (Great Britain) Long-term value: 10 mg/m³  • DNELs  94-36-0 dibenzoyl peroxide Oral DNEL Longterm System 2 mg/kg bw/day (General population)			
WEL (Great Britain) Long-term value: 10 mg/m³  • DNELs  94-36-0 dibenzoyl peroxide  Oral DNEL Longterm System 2 mg/kg bw/day (General population)			
Oral DNEL Longterm System 2 mg/kg bw/day (General population)			
94-36-0 dibenzoyl peroxide Oral DNEL Longterm System 2 mg/kg bw/day (General population)			
Oral DNEL Longterm System 2 mg/kg bw/day (General population)			
- · · · ·   - · · · · · · · · · · · · ·			
Dermal DNEL Longterm System 13,3 mg/kg bw/day (Worker)			
Inhalative DNEL Longterm System 39 mg/m3 (Worker)			
56-81-5 glycerol			
Inhalative DNEL Longterm Local 56 mg/m3 (Worker)			
PNECs			
94-36-0 dibenzoyl peroxide			
PNEC Marinewater sed 0,001 mg/kg sed dw			
PNEC Freshwater 0,00002 mg/l (AF 50)			
PNEC Freshwater sed 0,013 mg/kg sed dw			
PNEC STP 0,35 mg/l			
PNEC Marinewater 0,000002 mg/l (AF 500)			
56-81-5 glycerol			
PNEC Marinewater sed   0,33 mg/kg sed dw (-)			
PNEC Freshwater 0,885 mg/l (AF 1.000)			
PNEC Freshwater sed 3,3 mg/kg sed dw (-)			
PNEC Soil 0,141 mg/kg soil dw (-)			
PNEC STP 1.000 mg/l (AF 10)			
PNEC Marinewater 0,088 mg/l (AF 10.000)			

Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

Appropriate engineering

controls

No further data; see section 7.

· Individual protection measures, such as personal protective equipment

General protective and

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.

Be sure to clean skin thoroughly after work and before breaks.

· Respiratory protection: Not necessary if room is well-ventilated.

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

quality and varies from manufacturer to manufacturer.

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

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White

Characteristic

Not determined.

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Penetration time of glove

material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed

· Eye/face protection

Neoprene

Tightly sealed goggles

· Body protection:

Protective work clothing

### **SECTION 9: Physical and chemical properties**

· 9.1 Information on	basic physical	and chemical	properties
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· General Information

· Colour: · Odour: · Odour threshold:

· 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: > +60 °C (SADT)

· pH Not determined.

· Viscosity:

· Kinematic viscosity Not determined · Dynamic: Not determined.

Solubility

· water: Undetermined. · Partition coefficient n-octanol/water (log value) not determined · Vapour pressure: Not determined.

Density and/or relative density

Not determined · Density: Relative density Not determined. · Vapour density Not determined.

## 9.2 Other information

· Appearance:

Suspension

· Important information on protection of health and environment,

and on safety.

· Explosives

· Ignition temperature: Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

Void

Void

· Change in condition

Evaporation rate Not determined.

· Information with regard to physical hazard classes

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 Void

Pyrophoric solids · Self-heating substances and mixtures

· 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.

· Desensitised explosives

· Corrosive to metals Void Void

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Other safety characteristics

· Active oxygen 2,6 - 2,7 %

## **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. No further relevant information available

10.4 Conditions to avoid · 10.5 Incompatible materials:

Additional information:

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.

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:

94-36-0 dibenzoyl peroxide

Oral LD50 >5.000 mg/kg (rattus)

56-81-5 glycerol

Oral LD50 12.600 mg/kg (rattus) Dermal LD50 >18.700 mg/kg (rabbit)

Skin corrosion/irritation Based on available data, the classification criteria are not met. Causes serious eye irritation.

· Serious eye damage/irritation

Respiratory or skin

May cause an allergic skin reaction.

sensitisation Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

· Aspiration hazard · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

Aguatic toxicity:

94-36-0 dibenzoyl peroxide

EC50 / 72h | 0,0711 mg/l (pseudokirchneriella subcapitata)

LC50 / 96h 0,0602 mg/l (oncorhynchus mykiss)

EC50 / 48h | 110 mg/l (daphnia)

9014-85-1 Ethoxylated-2,4,7,9-tetramethyl-5-decyne-4,7-diol

LC50 / 96h | 52 mg/l (fish)

LC50 / 48h 166 mg/l (daphnia)

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· 12.2 Persistence and degradability

· Degree of elimination:

· Classification:

94-36-0 dibenzoyl peroxide

Degradation (Readily biodegradable) (OECD 301 D)

56-81-5 glycerol

Degradation (Readily biodegradable)

9014-85-1 Ethoxylated-2,4,7,9-tetramethyl-5-decyne-4,7-diol

Degradation (Not readily biodegradable)

12.3 Bioaccumulative potential

Partition coefficient: nOctanol/water: [Log Kow]				
94-36-0 dibenzoyl peroxide	3,2 (20 °C)			
56-81-5 glycerol	-1,75 (25°C)			
9014-85-1 Ethoxylated-2,4,7,9-tetramethyl-5-decyne-4,7-diol	1,8 - 2,5 (21°C)			
61791-12-6 Castor oil, ethoxylated	4.3 (25°C)			

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

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.

· 12.6 Endocrine disrupting

**properties**The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

· Remark: Very toxic for fish

· Additional ecological information:

General notes: 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 considerations**

· 13.1 Waste treatment methods

· Recommendation



After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Waste disposal key: Please conta

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 (DIBENZOYL PEROXIDE), ENVIRONMENTALLY HAZARDOUS

ORGANIC PEROXIDE TYPE F, LIQUID (DIBENZOYL PEROXIDE),

MARINE POLLUTANT

· IATA ORGANIC PEROXIDE TYPE F, LIQUID (DIBENZOYL PEROXIDE)

· 14.3 Transport hazard class(es)

· ADR

·IMDG





Class 5.2 (P1) Organic peroxides.

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· Label 5.2

· IMDG

Class 5.2 Organic peroxides.

Label

· IATA

**N** 

Class 5.2 Organic peroxides.

· Label 5.2

· 14.4 Packing group
· ADR, IMDG, IATA Void

• 14.5 Environmental hazards: Product contains environmentally hazardous substances: DIBENZOYL

PEROXIDE Yes

warme ponutant: Yes 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

Stowage CodeSW1 Protected from sources of heat.Segregation CodeSG35 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 instruments Not applicable

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 125 ml · Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

Transport category

Tunnel restriction code

Not permitted as Excepted Quantity
2

D

· RID / GGVSEB: like ADR

· IMDG

Limited quantities (LQ) 125 ml Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

### **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

· Named dangerous substances

- ANNEX I None of the ingredients is listed.

Seveso category P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements
 Qualifying quantity (tonnes) for the application of upper-tier requirements

**REGULATION (EC) No** 

**1907/2006 ANNEX XVII** Conditions of restriction: 3

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.

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· REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES 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 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. 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.

· Department issuing SDS: Environment protection / Security of labour

Contact: Tel: +49 2871 9902-0

E-mail: mail@pergan.com

· Version number of previous

version:

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent 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. F: Organic peroxides – Type E/F

Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 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 previous version altered.

IE-