


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

- **1.1 Product identifier**
- **Trade name:** PEROXAN EPC/OPN-52 WN-A
- **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 from:** Environment protection / Security of labour
Qualified person: E-mail: msds@pergan.com
- **1.4 Emergency telephone number:** - Tel: +49 2871 9902-0

SECTION 2: Hazards 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.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Repr. 1B H360F May damage fertility.
STOT SE 1 H370 Causes damage to the central nervous system and the visual organs.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms** 
GHS02 GHS05 GHS07 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:** bis(2-ethylhexyl) peroxydicarbonate
1,1,3,3-tetramethylbutyl peroxyneodecanoate
methanol
- **Hazard statements**
H242 Heating may cause a fire.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H360F May damage fertility.
H370 Causes damage to the central nervous system and the visual organs.
- **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.
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.
P310 Immediately call a POISON CENTER/doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P410 Protect from sunlight.
P411+P235 Store at temperatures not exceeding -15°C. Keep cool.
P420 Store separately.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:** Restricted to professional users.

Trade name: **PEROXAN EPC/OPN-52 WN-A**

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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: 16111-62-9 EINECS: 240-282-4 Reg-No.: 01-2119964452-35	bis(2-ethylhexyl) peroxydicarbonate Org. Perox. C, H242; Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	30-40%
CAS: 51240-95-0 EINECS: 257-077-0 Reg-No.: 01-2119966140-44	1,1,3,3-tetramethylbutyl peroxyneodecanoate Org. Perox. D, H242; Repr. 1B, H360F; Skin Irrit. 2, H315	10-20%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg-No.: 01-2119433307-44	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	10-20%
CAS: 9005-65-6	Polyoxyethylensorbitanmonooleate Aquatic Chronic 3, H412	1-2.5%

- **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:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.



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:

Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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.
Hydrocarbons, carbon dioxide and -monoxid.
Can form explosive gas-air mixtures.

5.3 Advice for firefighters**Protective equipment:**

Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.

Additional information

Cool endangered receptacles with water spray.
Self-protection first!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.
After exceeding the emergency temperature must be diluted with a suitable desensitisation agent to < 10 %.

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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:



Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Large quantities should be diluted with suitable desensitisation 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

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.
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).
The product must be preserved, stored and transported continuously cool.
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.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

Pay attention to the special requirements of your local authorities 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.
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.
Store under lock and key and out of the reach of children.
Storage in a collecting room is required.

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- **Recommended storage temperature (To maintain quality):** -20 -15°C
- **Storage class:** 5.2
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

67-56-1 methanol

WEL (Great Britain)	Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk
IOELV (EU)	Long-term value: 260 mg/m ³ , 200 ppm Skin

· DNELs

16111-62-9 bis(2-ethylhexyl) peroxydicarbonate

Dermal	DNEL Longterm System	6.67 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	11.75 mg/m ³ (Worker)

51240-95-0 1,1,3,3-tetramethylbutyl peroxyneodecanoate

Dermal	DNEL Longterm System	5 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	3.5 mg/m ³ (Worker)

67-56-1 methanol

Dermal	DNEL Longterm System	20 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	130 mg/m ³ (Worker)

· PNECs

16111-62-9 bis(2-ethylhexyl) peroxydicarbonate

PNEC Marinewater sed	0.0228 mg/kg sed dw (-)
PNEC Freshwater	0.032 mg/l (AF 50)
PNEC Freshwater sed	0.228 mg/kg sed dw (-)
PNEC Soil	0.0269 mg/kg soil dw (-)
PNEC STP	1.5 mg/l (AF 10)
PNEC Marinewater	0.0032 mg/l (AF 500)

51240-95-0 1,1,3,3-tetramethylbutyl peroxyneodecanoate

PNEC Marinewater sed	0.16 mg/kg sed dw (-)
PNEC Freshwater	0.00033 mg/l (AF 100)
PNEC Freshwater sed	1.66 mg/kg sed dw (-)
PNEC Soil	0.33 mg/kg soil dw (-)
PNEC STP	127.6 mg/l (AF 10)
PNEC Marinewater	0.000033 mg/l (AF 1.000)

· **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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.






Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.

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Trade name: **PEROXAN EPC/OPN-52 WN-A**

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· 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
· Material of gloves	Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
· Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· Eye/face protection	 Tightly sealed goggles
· Body protection:	 Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour:	White
· Odour:	Characteristic
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	Undetermined.
· Flash point:	Not determined.
· Decomposition temperature:	(SADT)
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	not determined
· Density and/or relative density	
· Density:	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	emulsion
· 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.

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Heating may cause a fire.
· Corrosive to metals	Void
· Desensitised explosives	Void

Trade name: **PEROXAN EPC/OPN-52 WN-A**

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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 self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by 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, carbon dioxide and -monoxide.
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 plan 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:****16111-62-9 bis(2-ethylhexyl) peroxydicarbonate**

Oral LD50 >2,000 mg/kg (rattus)

Dermal LD50 >2,000 mg/kg (rattus)

51240-95-0 1,1,3,3-tetramethylbutyl peroxyneodecanoate

Oral LD50 >5,000 mg/kg (rattus)

67-56-1 methanol

Oral LD50 1,187 mg/kg (rattus)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** May damage fertility.
- **STOT-single exposure** Causes damage to the central nervous system and the visual organs.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:****67-56-1 methanol**

EC50 / 72h 22,000 mg/l (algae)

· **12.2 Persistence and degradability**· **Degree of elimination:**· **Classification:****16111-62-9 bis(2-ethylhexyl) peroxydicarbonate**

Degradation (Readily biodegradable) (OECD 301 B)

51240-95-0 1,1,3,3-tetramethylbutyl peroxyneodecanoate

Degradation (Evidence for inherent biodegradability.) (OECD 301 D)


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Trade name: **PEROXAN EPC/OPN-52 WN-A**



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67-56-1 methanol	
Degradation	(Readily biodegradable)
12.3 Bioaccumulative potential	
· Partition coefficient: nOctanol/water: [Log Kow]	
16111-62-9	bis(2-ethylhexyl) peroxydicarbonate 2,73
67-56-1	methanol -0,77 (20°C)
79-20-9	methyl acetate 0,18 (20°C)
Bioconcentration factor (BCF)	
67-56-1 methanol	
BCF	<10
· 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 UK REACH, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.
· 12.6 Endocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	
Additional ecological information:	
· General notes:	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 desensitisation 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 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	UN3119
· ADR, IMDG	
· 14.2 UN proper shipping name	UN3119 ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE, 1,1,3,3-TETRAMETHYLBUTYL PEROXYNEODECANOATE)
· ADR	
· IMDG	ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE, 1,1,3,3-TETRAMETHYLBUTYL PEROXYNEODECANOATE)
14.3 Transport hazard class(es)	
· ADR	
	
· Class	5.2 (P2) Organic peroxides.
· Label	5.2
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· IMDG	
	
· Class	5.2 Organic peroxides.
· Label	5.2

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· IATA	
· Class	X
· Label	X
· 14.4 Packing group	
· ADR, IMDG	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Organic peroxides.
· Hazard identification number (Kemler code):	-
· EMS Number:	F-F,S-R
· Stowage Category	D
· 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:	-15°C
· Emergency temperature:	-5°C

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances

- ANNEX I

methanol

· Seveso category

H3 STOT SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

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

50 t

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

200 t

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GB

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

Printing date 18.06.2024

Version: 10 (replaces version 9)

Revision: 05.07.2023

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· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
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.
· 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	H225 Highly flammable liquid and vapour. H242 Heating may cause a fire. H301 Toxic if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H331 Toxic if inhaled. H360F May damage fertility. H370 Causes damage to organs. H371 May cause damage to organs. 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
· 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 Flam. Liq. 2: Flammable liquids – Category 2 Org. Perox. C: Organic peroxides – Type C/D Org. Perox. D: Organic peroxides – Type C/D Org. Perox. F: Organic peroxides – Type E/F Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Repr. 1B: Reproductive toxicity – Category 1B STOT SE 1: Specific target organ toxicity (single exposure) – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· * Data compared to the previous version altered.	

GB