

Printing date 03.04.2024 Version: 9 (replaces version 8) Revision: 04.03.2024

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

· 1.1 Product identifier

• Trade name: PEROXAN DB-50

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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

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

Muta. 2 H341 Suspected of causing genetic defects.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects

2.2 Label elements

Labelling according to

Hazard pictograms

Regulation (EC) No 1272/2008

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



Danger

Signal word

Hazard-determining

components of labelling: di-tert-butyl peroxide

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

• **Hazard statements** H225 Highly flammable liquid and vapour.

H242 Heating may cause a fire.

H341 Suspected of causing genetic defects. H304 May be fatal if swallowed and enters airways. H412 Harmful 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.

P243 Take action to prevent static discharges.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water.

P405 Store locked up. P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding +40°C. Keep cool.

P420 Store separately

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

regulations.

• Additional information: Contains tert-butyl hydroperoxide. May produce an allergic reaction.

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 REACH, annex XIII.

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: 110-05-4 EINECS: 203-733-6 Index number: 617-001-00-2 Reg-No.: 01-2119513335-48 | di-tert-butyl peroxide Flam. Liq. 2, H225; Org. Perox. E, H242; Muta. 2, H341; Aquatic Chronic 3, H412 | 40-50% |
| CAS: 93685-81-5 EINECS: 297-629-8 Reg-No.: 01-2119490725-29 | Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413 | 40-50% |
| CAS: 75-91-2 EINECS: 200-915-7 | tert-butyl hydroperoxide Flam. Liq. 3, H226; Org. Perox. F, H242; Acute Tox. 3, H311; Acute Tox. 2, H330; Muta. 2, H341; Carc. 2, H351; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 % Skin Sens. 1; H317: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 % | ≤0,1% |

· 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: Take affected persons into fresh air and keep quiet.

After skin contact: Immediately remove contaminated clothing.

After eye contact: Rinse opened eye for several minutes under running water.

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, sand, extinguishing powder. Do not use water.

Water with full jet

· For safety reasons unsuitable

extinguishing agents:

No further relevant information available.

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. 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.

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.

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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.

Do not flush with water or aqueous cleansing agents

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

disposal.

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

regulations.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

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

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

Use only in well ventilated areas.

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

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

Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavymetal compounds and amines)

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:

Requirements to be met by

Pay attention to the special requirements of your local autorithies for storing dangerous goods.

storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle. Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

· Information about storage in one common storage facility:

Do not store or park organic peroxide together with heavy metal compounds and amines.

Store away from foodstuffs, drinks and feeding stuffs.

· Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from contamination.

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Recommended storage

temperature (To maintain quality):

max.: +40 °C

Store in a cool place.

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:

The product does not contain any relevant quantities of materials with critical values that have to be

monitored at the workplace.

| · DNELs | | | | |
|------------|----------------------------------|----------------------------|--|--|
| 110-05-4 c | li-tert-butyl peroxide | | | |
| Dermal | DNEL Longterm System | 3 mg/kg bw/day (Worker) | | |
| Inhalative | DNEL Longterm System | 20 mg/m3 (Worker) | | |
| 75-91-2 te | 75-91-2 tert-butyl hydroperoxide | | | |
| Dermal | DNEL Longterm System | 0,21 mg/kg bw/day (Worker) | | |
| Inhalative | DNEL Acute Systemic | 85,2 mg/m3 (Worker) | | |
| | DNEL Acute Local | 28,4 mg/m3 (Worker) | | |
| | DNEL Longterm System | 2,2 mg/m3 (Worker) | | |
| | DNEL Longterm Local | 0,58 mg/m3 (Worker) | | |

·PNECs

110-05-4 di-tert-butyl peroxide

PNEC Marinewater sed | 1,5 mg/kg sed dw (-) 0,144 mg/l (AF 50) PNEC Freshwater 15 mg/kg sed dw (-) PNEC Freshwater sed PNEC Soil 2,94 mg/kg soil dw (-) 10 mg/l (AF 100) PNEC STP 0,014 mg/l (AF 500) **PNEC Marinewater**

75-91-2 tert-butyl hydroperoxide

PNEC Marinewater sed 0,001 mg/kg sed dw 0,002 mg/l (AF 1.000) PNFC Freshwater 0 mg/l (AF 10.000) PNFC Seawater PNEC Freshwater sed 0,006 mg/kg sed dw (-) PNEC Soil 0,166 mg/kg soil dw (AF 1.000) PNEC STP 0,17 mg/I (AF 100)

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

The usual precautionary measures are to be adhered to when handling chemicals. hygienic measures:

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.

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.

Filter A2

Only use chemical-protective gloves with CE-labelling of category III. · Hand protection



Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Protective gloves

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(Contd. of page 4) 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.

Butvl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Neoprene

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

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: · Odour:

· 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: Decomposition temperature:

· pH

· Viscosity:

· Kinematic viscosity

· Dynamic: Solubility

· water:

· Partition coefficient n-octanol/water (log value) · Vapour pressure:

Density and/or relative density

· Density: Relative density

· Vapour density · 9.2 Other information

No further relevant information available.

· Appearance:

· Important information on protection of health and environment,

and on safety.

Ignition temperature:

Explosive properties:

Change in condition

· Evaporation rate

Information with regard to physical hazard classes

Explosives

Flammable gases · Aerosols

· Oxidising gases

· Gases under pressure

· Flammable liquids

Flammable solids

· 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

Characteristic Not determined.

Not applicable. Not applicable.

colourless - yellowish

Not applicable.

Not determined

Not determined. 10 °C

+80 °C (SADT)

Not determined.

Not determined.

Not determined.

Undetermined. not determined

Not determined. Not determined.

Not determined. Not determined.

Fluid

Product is not selfigniting.

Product is not explosive. However, formation of explosive air/vapour

mixtures are possible.

Not determined.

Void

Void Void Void

> Void Highly flammable liquid and vapour.

Void

Void

Void Void

Void Void

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· Oxidising liquids Void Oxidising solids Void

Organic peroxides Heating may cause a fire.

· Corrosive to metals · Desensitised explosives Other safety characteristics

Active oxygen ca. 5,5 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability Thermal decomposition /

SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating conditions to be avoided:

Void

Void

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

· 10.4 Conditions to avoid

Self-accelerating decomposition at SADT.

· 10.5 Incompatible materials:

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).

· 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:

110-05-4 di-tert-butyl peroxide

Oral LD50 >25.000 mg/kg (rattus) LD50 >19.000 mg/kg (mouse) Dermal Inhalative LC50 / 4h >24,5 mg/l (rattus)

93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

Oral LD50 >5.000 mg/kg (rattus)

75-91-2 tert-butyl hydroperoxide

Oral LD50 805 mg/kg /(70%) (rattus) Dermal LD50 633 mg/kg /(70%) (rabbit) Inhalative LC50 / 4h 1,2 mg/l /(70%) (rattus)

· Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

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

· Germ cell mutagenicity Suspected of causing genetic defects.

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

 Aspiration hazard May be fatal if swallowed and enters airways.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information

· 12.1 Toxicity

| Δα | uati | ic | tov | ici | tv: |
|----|------|----|-----|-----|-----|
| Λч | uaı | | LUA | ıvı | LV. |

93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

EC50 / 48h >0,04 mg/l (daphnia) IC50 / 72h >0,04 mg/l (algae)

75-91-2 tert-butyl hydroperoxide

EC50 / 72h | 2,1 mg/l /(70%) (selenastrum capricornutum) LC50 / 96h | 42,3 mg/l /(70%) (pimephales promelas) EC50 24,3 mg/l /(70%) (activa sludge) EC50 / 48h | 20 mg/l /(70%) (daphnia)

12.2 Persistence and degradability

Degree of elimination:

· Classification:

110-05-4 di-tert-butyl peroxide

Degradation (Not readily biodegradable) (OECD 301 D)

93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

Degradation (Not readily biodegradable)

75-91-2 tert-butyl hydroperoxide

Degradation (Not readily biodegradable) (OECD 301 D)

12.3 Bioaccumulative potential

| · Partition coefficient: nOctanol/water: [Log Kow] | | | | | |
|--|----------------------------------|--------------|--|--|--|
| | 110-05-4 di-tert-butyl peroxide | 3,2 (22°C) | | | |
| | 75-65-0 2-methylpropan-2-ol | 0,32 (20°C) | | | |
| | 75-91-2 tert-butyl hydroperoxide | 0,85 (30 °C) | | | |

12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

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

· 12.6 Endocrine disrupting

properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects No further relevant information available.

· Remark: Harmful to fish

· Additional ecological information:

General notes: Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage

system.

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

· 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

· ADR, IMDG, IATA UN3109

· 14.2 UN proper shipping name

UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (DI-tert-BUTYL · ADR PEROXIDE)

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· IMDG, IATA ORGANIC PEROXIDE TYPE F, LIQUID (DI-tert-BUTYL PEROXIDE)

· 14.3 Transport hazard class(es)

· ADR

<u>**</u>

· Class 5.2 (P1) Organic peroxides.

Label 5.2

· IMDG, IATA



· Class 5.2 Organic peroxides.

Label 5

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Organic peroxides.

· Hazard identification number (Kemler code):

Stowage Category D

Stowage Code
 Segregation Code
 SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.

SG72 See 7.2.6.3.2.

· 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

Transport/Additional information:

Transport/Additional Information

· ADR · Limited quantities (LQ)

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

Not permitted as Excepted Quantity

Transport category 2
Tunnel restriction code 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

Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier

requirements 200

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

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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.

Department issuing SDS: Environment protection / Security of labour

· Contact: Tel: +49 2871 9902-0 E-mail: mail@pergan.com

· Version number of previous

version:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the · Abbreviations and acronyms:

International Transport of Dangerous Goods by Rail)

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

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

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

VPUB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids — Category 2 Flam. Liq. 3: Flammable liquids — Category 3 Org. Perox. E: Organic peroxides — Type E/F Org. Perox. F: Organic peroxides — Type E/F

Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skill Collision and Collision and Category 1
Skin Sens. 1: Skrious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard — Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard — Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

* * Data compared to the previous version altered.

MT -