

H-Des

Date of compilation: 2021-01-07

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

1.1 Product identifier

| | |
|-----------------------------|------------------------|
| Tradename | H-Des |
| Registration number (REACH) | not relevant (mixture) |

1.2 Relevant identified uses of the substance or mixture and uses advised against

| | |
|--------------------------|---------------------------------------|
| Relevant identified uses | biocidal product professional uses |
|--------------------------|---------------------------------------|

1.3 Details of the supplier of the safety data sheet

NEVS BioTec UG (haftungsbeschränkt)
Kastanienallee 16
25560 Schenefeld

Website: www.nevs-biotec.de

1.4 Emergency telephone number

| Name | Street | Postal code/city | Telephone | Telefax | Opening hours |
|---------------------------|--------|------------------|---------------|---------|-------------------------|
| Toxicological Information | | | +491738940850 | | Mon - Fri 09:00 - 17:00 |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

not required

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | wt% | Classification acc. to 1272/2008/EC |
|-------------------|---|--------|--|
| hydrogen peroxide | CAS No 7722-84-1 EC No 231-765-0 | 1 - <5 | Ox. Liq. 1 / H271 Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Corr. 1A / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 Aquatic Chronic 3 / H412 |

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| Name of substance | Identifier | wt% | Classification acc. to 1272/2008/EC |
|-----------------------|--|-----|--|
| peracetic acid | CAS No 79-21-0 EC No 201-186-8 | <1 | Flam. Liq. 3 / H226 Org. Perox. D / H242 Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 2 / H330 Skin Corr. 1A / H314 STOT SE 3 / H335 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411 |
| benzoic acid | CAS No 65-85-0 EC No 200-618-2 | <1 | Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT RE 1 / H372 |
| hexa-2,4-dienoic acid | CAS No 110-44-1 EC No 203-768-7 | <1 | Eye Irrit. 2 / H319 STOT SE 3 / H335 |

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In case of unconsciousness place person in the recovery position. Never give anything by mouth. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area. Prevent skin contact. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

• Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

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• Warning

Solvent vapours are heavier than air and may spread along floors.

• Handling of incompatible substances or mixtures

• Keep away from

caustic solutions

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Incompatible substances or mixtures

Observe hints for combined storage.

• Protect against external exposure, such as

high temperatures, frost, sunlight

Consideration of other advice

• Packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Source |
|---------|-------------------|-----------|------------|-----------|--------------------------|------------|---------------------------|-----------|
| GB | hydrogen peroxide | 7722-84-1 | WEL | 1 | 1.4 | 2 | 2.8 | EH40/2005 |

Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|-------------------|-----------|-----------|------------------------|------------------------------------|-------------------|----------------------------|
| hydrogen peroxide | 7722-84-1 | DNEL | 3 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| hydrogen peroxide | 7722-84-1 | DNEL | 1.4 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| peracetic acid | 79-21-0 | DNEL | 0.56 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| peracetic acid | 79-21-0 | DNEL | 0.56 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |

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| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|-----------------------|----------|-----------|-------------------------|------------------------------------|-------------------|--------------------------|
| peracetic acid | 79-21-0 | DNEL | 0.56 mg/m ³ | human, inhalatory | worker (industry) | acute-systemic effects |
| peracetic acid | 79-21-0 | DNEL | 0.56 mg/m ³ | human, inhalatory | worker (industry) | acute-local effects |
| benzoic acid | 65-85-0 | DNEL | 0.1 mg/m ³ | human, inhalatory | worker (industry) | chronic-local effects |
| benzoic acid | 65-85-0 | DNEL | 62.5 mg/kg | human, dermal | worker (industry) | chronic-systemic effects |
| benzoic acid | 65-85-0 | DNEL | 3 mg/m ³ | human, inhalatory | worker (industry) | chronic-systemic effects |
| hexa-2,4-dienoic acid | 110-44-1 | DNEL | 40 mg/kg | human, dermal | worker (industry) | chronic-systemic effects |
| hexa-2,4-dienoic acid | 110-44-1 | DNEL | 17.63 mg/m ³ | human, inhalatory | worker (industry) | chronic-systemic effects |

• relevant PNECs of components of the mixture

| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|-------------------|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| hydrogen peroxide | 7722-84-1 | PNEC | 0.0126 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| hydrogen peroxide | 7722-84-1 | PNEC | 0.0126 mg/l | aquatic organisms | marine water | short-term (single instance) |
| hydrogen peroxide | 7722-84-1 | PNEC | 4.66 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| hydrogen peroxide | 7722-84-1 | PNEC | 0.047 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| hydrogen peroxide | 7722-84-1 | PNEC | 0.047 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| hydrogen peroxide | 7722-84-1 | PNEC | 0.0023 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| hydrogen peroxide | 7722-84-1 | PNEC | 0.0138 mg/l | aquatic organisms | water | intermittent release |
| peracetic acid | 79-21-0 | PNEC | 0 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| peracetic acid | 79-21-0 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| peracetic acid | 79-21-0 | PNEC | 0.051 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| peracetic acid | 79-21-0 | PNEC | 0 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| peracetic acid | 79-21-0 | PNEC | 0 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| peracetic acid | 79-21-0 | PNEC | 0.32 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| peracetic acid | 79-21-0 | PNEC | 0.002 mg/l | aquatic organisms | water | intermittent release |

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| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|-----------------------|----------|-----------|------------------------|-----------------------|------------------------------|------------------------------|
| benzoic acid | 65-85-0 | PNEC | 0.34 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| benzoic acid | 65-85-0 | PNEC | 0.034 mg/l | aquatic organisms | marine water | short-term (single instance) |
| benzoic acid | 65-85-0 | PNEC | 100 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| benzoic acid | 65-85-0 | PNEC | 1.75 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| benzoic acid | 65-85-0 | PNEC | 0.175 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| benzoic acid | 65-85-0 | PNEC | 0.151 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| benzoic acid | 65-85-0 | PNEC | 0.331 mg/l | aquatic organisms | water | intermittent release |
| hexa-2,4-dienoic acid | 110-44-1 | PNEC | 0.129 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| hexa-2,4-dienoic acid | 110-44-1 | PNEC | 0.01294 mg/l | aquatic organisms | marine water | short-term (single instance) |
| hexa-2,4-dienoic acid | 110-44-1 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| hexa-2,4-dienoic acid | 110-44-1 | PNEC | 0.465 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| hexa-2,4-dienoic acid | 110-44-1 | PNEC | 0.046 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| hexa-2,4-dienoic acid | 110-44-1 | PNEC | 5 mg/l _{soil} | terrestrial organisms | soil | short-term (single instance) |
| hexa-2,4-dienoic acid | 110-44-1 | PNEC | 0.241 mg/l | aquatic organisms | water | intermittent release |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

• hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

• **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|----------------|
| Physical state | liquid |
| Colour | clear |
| Odour | characteristic |

Other physical and chemical parameters

| | |
|---|--|
| pH (value) | 3-4.5 |
| Melting point/freezing point | -33 °C |
| Initial boiling point and boiling range | 100 °C |
| Flash point | not determined |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant (fluid) |
| Explosive limits | not determined |
| Vapour pressure | 32 hPa at 25 °C |
| Density | 1.009-1.071 g/cm ³ at 20 °C |
| Solubility(ies) | |
| Water solubility | miscible in any proportion |
| Partition coefficient | |
| n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature | not determined |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidising properties | none |

9.2 Other information

No further information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat. - UV-radiation/sunlight.

10.5 Incompatible materials

bases

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

• Acute toxicity of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|-------------------|-----------|-----------------------|---------------|
| hydrogen peroxide | 7722-84-1 | oral | 1,026 mg/kg |
| hydrogen peroxide | 7722-84-1 | inhalation: vapour | 11 mg/l/4h |
| peracetic acid | 79-21-0 | oral | 1,780 mg/kg |
| peracetic acid | 79-21-0 | dermal | 1,147 mg/kg |
| peracetic acid | 79-21-0 | inhalation: vapour | 0.5 mg/l/4h |
| peracetic acid | 79-21-0 | inhalation: dust/mist | 0.204 mg/l/4h |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

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Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-----------------------|-----------|----------|------------|-----------------------|---------------|
| hydrogen peroxide | 7722-84-1 | LC50 | 16.4 mg/l | fish | 96 h |
| hydrogen peroxide | 7722-84-1 | ErC50 | 1.38 mg/l | algae | 72 h |
| peracetic acid | 79-21-0 | LC50 | 11 mg/l | fish | 96 h |
| peracetic acid | 79-21-0 | EC50 | 0.73 mg/l | aquatic invertebrates | 48 h |
| peracetic acid | 79-21-0 | ErC50 | 0.16 mg/l | algae | 72 h |
| benzoic acid | 65-85-0 | LC50 | 44.6 mg/l | fish | 96 h |
| benzoic acid | 65-85-0 | ErC50 | >33.1 mg/l | algae | 72 h |
| hexa-2,4-dienoic acid | 110-44-1 | LC50 | 75 mg/l | fish | 96 h |
| hexa-2,4-dienoic acid | 110-44-1 | EC50 | 70 mg/l | aquatic invertebrates | 48 h |
| hexa-2,4-dienoic acid | 110-44-1 | ErC50 | 77 mg/l | algae | 72 h |

Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-----------------------|-----------|----------|-----------|-----------------------|---------------|
| hydrogen peroxide | 7722-84-1 | EC50 | 466 mg/l | microorganisms | 30 min |
| peracetic acid | 79-21-0 | EC50 | 38.6 mg/l | microorganisms | 3 h |
| benzoic acid | 65-85-0 | EC50 | >120 mg/l | fish | 28 d |
| hexa-2,4-dienoic acid | 110-44-1 | LC50 | >50 mg/l | aquatic invertebrates | 21 d |
| hexa-2,4-dienoic acid | 110-44-1 | EC50 | >50 mg/l | aquatic invertebrates | 21 d |

Biodegradation

The relevant substances of the mixture are readily biodegradable.

12.2 Persistence and degradability

Data are not available.

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Degradability of components of the mixture

| Name of substance | CAS No | Process | Degradation rate | Time |
|-----------------------|----------|---------------------------|------------------|------|
| peracetic acid | 79-21-0 | DOC removal | 98% | 28d |
| benzoic acid | 65-85-0 | carbon dioxide generation | 89.5% | 35d |
| hexa-2,4-dienoic acid | 110-44-1 | oxygen depletion | 74.9% | 28d |

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
|-----------------------|----------|-----|------------------|----------|
| peracetic acid | 79-21-0 | | -1.2-1.3 (25 °C) | |
| benzoic acid | 65-85-0 | | 1.88 | |
| hexa-2,4-dienoic acid | 110-44-1 | | 1.33 (25 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

| | | |
|------|-------------------------------------|--|
| 14.1 | UN number | (not subject to transport regulations) |
| 14.2 | UN proper shipping name | not relevant |
| 14.3 | Transport hazard class(es) Class | - |
| 14.4 | Packing group | not relevant |
| 14.5 | Environmental hazards | none (non-environmentally hazardous acc. to the dangerous goods regulations) |

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- 14.6** Special precautions for user
There is no additional information.
- 14.7** Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Relevant provisions of the European Union (EU)**

• **Seveso Directive**

| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
|----|---------------------------------------|---|-------|
| | not assigned | | |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|---|
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| CMR | Carcinogenic, Mutagenic or toxic for Reproduction |
| COD | Chemical oxygen demand |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| logKOW | n-Octanol/water |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |

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| Abbr. | Descriptions of used abbreviations |
|-------------|--|
| NLP | No-Longer Polymer |
| Org. Perox. | Organic peroxide |
| Ox. Liq. | Oxidising liquid |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- Regulation (EU) No 528/2012 (BPR)

Classification procedure

Physical and chemical properties, Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text |
|------|---|
| H226 | Flammable liquid and vapour. |
| H242 | Heating may cause a fire. |
| H271 | May cause fire or explosion; strong oxidiser. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |



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according to Regulation (EC) No. 1907/2006 (REACH)

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| Code | Text |
|------|--|
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.