

Safety Data Sheet

according to UK REACH Regulation

ARENAS-oxydes

Revision date: 12.12.2022

Product code: j6531_sd

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Hazard components for labelling

Peracetic Acid / Hydrogen Peroxide

Signal word: Danger

Pictograms:



Hazard statements

H242 Heating may cause a fire.
H290 May be corrosive to metals.
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H335 May cause respiratory irritation.
H314 Causes severe skin burns and eye damage.
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.
P234 Keep only in original packaging.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.
P391 Collect spillage.

Special labelling of certain mixtures

EUH071 Corrosive to the respiratory tract.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

according to 648/2004/CE: organic acids, Peroxides

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Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 7722-84-1 | Hydrogen peroxide solution 35% | | | 25 - < 30 % |
| | 231-765-0 | 008-003-00-9 | 01-2119485845-22 | |
| | Ox. Liq. 1, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3, Aquatic Chronic 3; H271 H332 H302 H314 H318 H335 H412 | | | |
| 64-19-7 | acetic acid | | | 5 - < 10 % |
| | 200-580-7 | 607-002-00-6 | 01-2119475328-30 | |
| | Flam. Liq. 3, Skin Corr. 1A, Eye Dam. 1; H226 H314 H318 | | | |
| 79-21-0 | Peracetic acid ... % | | | 1 - < 5 % |
| | 201-186-8 | 607-094-00-8 | 01-2119531330-56 | |
| | Flam. Liq. 3, Org. Perox. D, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Aquatic Acute 1, Aquatic Chronic 1; H226 H242 H332 H312 H302 H314 H400 H410 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 7722-84-1 | 231-765-0 | Hydrogen peroxide solution 35% | 25 - < 30 % |
| | inhalation: LC50 = >0,17 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >5000 mg/kg; oral: LD50 = 415 mg/kg Ox. Liq. 1; H271: >= 70 - 100 Ox. Liq. 2; H272: >= 50 - < 70 Skin Corr. 1A; H314: >= 70 - 100 Skin Corr. 1B; H314: >= 50 - < 70 Skin Irrit. 2; H315: >= 35 - < 50 Eye Dam. 1; H318: >= 8 - < 50 Eye Irrit. 2; H319: >= 5 - < 8 STOT SE 3; H335: >= 35 - 100 | | |
| 64-19-7 | 200-580-7 | acetic acid | 5 - < 10 % |
| | oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 | | |
| 79-21-0 | 201-186-8 | Peracetic acid ... % | 1 - < 5 % |
| | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg STOT SE 3; H335: >= 1 - 100 | | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Avoid contact with skin and eyes.

After inhalation

Take the victim into fresh air.

If unconscious place in recovery position and seek medical advice.

No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.

Call a physician immediately.

After contact with skin

Flush with water. Do NOT use solvents or thinners.

Take off all contaminated clothing immediately.

Call a physician immediately.

After contact with eyes

Remove contact lenses, if present and easy to do.

Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.

Call a physician immediately.

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After ingestion

- Rinse mouth.
- Immediately give large quantities of water to drink.
- Never give anything by mouth to an unconscious person.
- Prevent vomiting if possible.
- Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

This information is not available.

4.3. Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Any extinguishing means and measures are acceptable.

5.2. Special hazards arising from the substance or mixture

This information is not available.

5.3. Advice for firefighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

- Avoid contact with skin, eyes and clothing.
- Emergency measures on accidental release:
 - Respirator with combination filter for vapour/particulate (EN 141).
 - A2B2E2K1P2 (Draeger)
 - OV/AG (3M)
 - ABEK2P3 (3M)

For non-emergency personnel

Use personal protection equipment.

For emergency responders

Use personal protection equipment.

6.2. Environmental precautions

Do not flush into surface water.

6.3. Methods and material for containment and cleaning up

For containment

- Stop leak if safe to do so. Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

- Wipe up with absorbent material (e.g. cloth, fleece).
- Clean contaminated articles and floor according to the environmental legislation.

Other information

Any leaked product must be rinsed off with plenty of water.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.
Ensure adequate ventilation, especially in confined areas.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition.

Advice on general occupational hygiene

General industrial hygiene practice.

Further information on handling

Do not keep container sealed.
Avoid formation of aerosol.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in original container. Keep in a dry, cool and well-ventilated place.
Store in a place accessible by authorized persons only.

Hints on joint storage

Keep away from food and drink.
Keep away from combustible material.
Incompatible products: See also section 10

Further information on storage conditions

Keep container tightly closed. Store in upright position only.
Never return unused material to storage receptacle.
Take precautionary measures against static discharges.

7.3. Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|-------------------|-----|-------------------|-----------|---------------|--------|
| 64-19-7 | Acetic acid | 10 | 25 | | TWA (8 h) | WEL |
| | | 20 | 50 | | STEL (15 min) | WEL |
| 7722-84-1 | Hydrogen peroxide | 1 | 1.4 | | TWA (8 h) | WEL |
| | | 2 | 2.8 | | STEL (15 min) | WEL |

8.2. Exposure controls

Appropriate engineering controls

Not required.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166

Hand protection

Protective gloves
Recommendation: Nature latex gloves with parts of polychloropren latex and a coating thickness of 0.6 mm which protect at least 8 hours (corresponds to the permeability level 6 of the European norm DIN/EN 374) and provide a resistance to swelling of < 15%.

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Skin protection

Wear suitable protective clothing.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. (EN 14387)

Environmental exposure controls

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|-----------------------------------------------------------|-------------------------|--------------------|
| Physical state: | liquid | |
| Colour: | colourless | |
| Odour: | pungent | |
| | | Test method |
| Melting point/freezing point: | approx. -28 °C | |
| Boiling point or initial boiling point and boiling range: | not applicable | |
| Flammability: | not applicable | |
| Lower explosion limits: | not applicable | |
| Upper explosion limits: | not applicable | |
| Flash point: | not determined | |
| Auto-ignition temperature: | 395 °C | |
| Decomposition temperature: | > 60 °C | |
| pH-Value (at 20 °C): | approx. 0,5 | K-QP1012C |
| Viscosity / kinematic: (at 20 °C) | 1,19 mm ² /s | DIN 51562 |
| Water solubility: (at 20 °C) | completely miscible | |
| Solubility in other solvents | not determined | |
| Partition coefficient n-octanol/water: | not determined | |
| Vapour pressure: | 27 hPa | |
| Density (at 20 °C): | 1,12 g/cm ³ | K-QP1012E |
| Relative vapour density: | not determined | |
| Particle characteristics: | not applicable | |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

no data available

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

Oxidizing properties

Not relevant

Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

Sublimation point:

not applicable

Softening point:

not applicable

Pour point:

not applicable

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Viscosity / dynamic:

not determined

Flow time:

not determined

Further Information

Oxidizer

SECTION 10: Stability and reactivity**10.1. Reactivity**

Oxidizer. Contact with other material may cause fire.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Decomposes by reaction with alkaline solutions.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Do not expose to temperatures above 35 °C.

10.5. Incompatible materials

alkalis, Reducing agents, Impurities, Metals

10.6. Hazardous decomposition products

Steam, Oxygen

Further information

Do not mix with other detergents or chemicals.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Harmful if swallowed.

Harmful in contact with skin. (On basis of test data)

Harmful if inhaled.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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| CAS No | Chemical name | | | | |
|-----------|--------------------------------|---------------|----------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 7722-84-1 | Hydrogen peroxide solution 35% | | | | |
| | oral | LD50 mg/kg | 415 | rat | |
| | dermal | LD50 mg/kg | >5000 | rabbit | |
| | inhalation (4 h) vapour | LC50 mg/l | >0,17 | rat | |
| | inhalation dust/mist | ATE | 1,5 mg/l | | |
| 64-19-7 | acetic acid | | | | |
| | oral | LD50 mg/kg | 3310 | Rat | GESTIS |
| 79-21-0 | Peracetic acid ... % | | | | |
| | oral | ATE mg/kg | 500 | | |
| | dermal | ATE mg/kg | 1100 | | |
| | inhalation vapour | ATE | 11 mg/l | | |
| | inhalation dust/mist | ATE | 1,5 mg/l | | |

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Corrosive to the respiratory tract.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. (Peracetic acid ... %)

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

This information is not available.

Further information

Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

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| CAS No | Chemical name | | | | | |
|-----------|--------------------------------|------------------|-----------|---------|-----------------------------------------|-------------------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 7722-84-1 | Hydrogen peroxide solution 35% | | | | | |
| | Acute fish toxicity | LC50 mg/l | 16,4 | 96 h | Pimephales promelas (fathead minnow) | |
| | Acute crustacea toxicity | EC50 | 2,4 mg/l | 48 h | Daphnia pulex (water flea) | |
| | Crustacea toxicity | NOEC mg/l | 0,63 | 3 d | Skeletonema costatum | |
| | Acute bacteria toxicity | EC50 () | 466 mg/l | 0,5 h | | OECD 209 |
| 64-19-7 | acetic acid | | | | | |
| | Acute fish toxicity | LC50 mg/l | >1000 | 96 h | | |
| | Acute algae toxicity | ErC50 mg/l | >1000 | 72 h | Skeletonema costatum | literature value ISO 10253 |
| | Acute crustacea toxicity | EC50 mg/l | >300,82 | 48 h | Daphnia magna | literature value |
| | Fish toxicity | NOEC mg/l | 34,3 | 21 d | Oncorhynchus mykiss (Rainbow trout) | literature value OECD 204 |
| | Algae toxicity | NOEC mg/l | 1000 | 3 d | Skeletonema costatum | literature value ISO 10253 |
| | Crustacea toxicity | NOEC mg/l | 31,4 | 21 d | Daphnia magna (Big water flea) | literature value OECD 202 |
| | Acute bacteria toxicity | EC50 mg/l () | 1150 | | | |
| 79-21-0 | Peracetic acid ... % | | | | | |
| | Acute fish toxicity | LC50 | 1,1 mg/l | 96 h | Lepomis macrochirus (Bluegill) | By analogy. |
| | Acute algae toxicity | ErC50 mg/l | 0,16 | 72 h | Pseudokirchneriella subcapitata | By analogy. US-EPA |
| | Acute crustacea toxicity | EC50 mg/l | 0,73 | 48 h | Daphnia magna (Big water flea) | By analogy. |
| | Fish toxicity | NOEC mg/l | 0,00069 | 33 d | Danio rerio (zebrafish) | By analogy. OECD 210 |
| | Algae toxicity | NOEC mg/l | 0,061 | 3 d | Pseudokirchneriella subcapitata | By analogy. US-EPA |
| | Crustacea toxicity | NOEC mg/l | 0,0121 | 21 d | Daphnia magna (Big water flea) | By analogy. OECD 211 |
| | Acute bacteria toxicity | EC50 () | 5,1 mg/l | 3 h | | By analogy. OECD 209 |

12.2. Persistence and degradability

This information is not available.

| CAS No | Chemical name | | | |
|---------|----------------------|-------|----|------------------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 64-19-7 | acetic acid | | | |
| | | 96% | 20 | literature value |
| 79-21-0 | Peracetic acid ... % | | | |
| | OECD 301 E | 98% | 28 | By analogy. |

12.3. Bioaccumulative potential

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This information is not available.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-----------|--------------------------------|---------|
| 7722-84-1 | Hydrogen peroxide solution 35% | -1,57 |
| 64-19-7 | acetic acid | -0,17 |
| 79-21-0 | Peracetic acid ... % | -0,26 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|---------|---------------|------|---------|------------------|
| 64-19-7 | acetic acid | 3,16 | | literature value |

12.4. Mobility in soil

This information is not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

This information is not available.

Further information

The organic ingredients can be biodegraded in a sewage plant after neutralization. Chemical Oxygen Demand (COD) 251 mg O₂/g

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not dispose of waste into sewer.

List of Wastes Code - residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

List of Wastes Code - used product

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Contaminated packaging

Clean container with water. Return cleaned containers to the company for recycling.
Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 3149

14.2. UN proper shipping name:

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

14.3. Transport hazard class(es):

5.1

14.4. Packing group:

II

Hazard label:

5.1+8



Classification code:

OC1

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Special Provisions: 196 553
 Limited quantity: 1 L
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 58
 Tunnel restriction code: E

Marine transport (IMDG)

14.1. UN number or ID number: UN 3149
14.2. UN proper shipping name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
14.3. Transport hazard class(es): 5.1
14.4. Packing group: II
 Hazard label: 5.1+8



Special Provisions: 196
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-H, S-Q
 Segregation group: Peroxides

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



14.6. Special precautions for user

Not required

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):
 Entry 3, Entry 40, Entry 75

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 3 / 6 / 7 / 8 / 12

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Abbreviations and acronyms

Ox. Liq: Oxidising liquids
Org. Perox
Met. Corr: Corrosive to metals
Flam. Liq: Flammable liquids
Self-react
Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Eye Dam: Eye damage
STOT SE: Specific target organ toxicity - single exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport 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 Harmonized 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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

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Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|-------------------------------------------------------|
| Met. Corr. 1; H290 | Bridging principle "Substantially similar mixtures" |
| Self-react. F; H242 | Expert judgement and weight of evidence determination |
| Acute Tox. 4; H302 | Calculation method |
| Acute Tox. 4; H312 | On basis of test data |
| Acute Tox. 4; H332 | Calculation method |
| Skin Corr. 1A; H314 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |
| STOT SE 3; H335 | Calculation method |
| Aquatic Chronic 1; H410 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|----------------|-----------------------------------------------------------|
| H226 | Flammable liquid and vapour. |
| H242 | Heating may cause a fire. |
| H271 | May cause fire or explosion; strong oxidiser. |
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H302+H312+H332 | Harmful if swallowed, in contact with skin or if inhaled. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory 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. |
| EUH071 | Corrosive to the respiratory tract. |

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)