

SAFETY DATA SHEET

Uriclean Concentrate

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

1.1. Product identifier

Trade name

Uriclean Concentrate

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

Relevant identified uses of the substance or mixture

No special

Uses advised against

No special

1.3. Details of the supplier of the safety data sheet

Company and address

Vecom Marine B.V.

Mozartlaan 3

3144 NA Maassluis

The Netherlands

+31 (0) 10-5930210

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<https://vecom-marine.com>

Contact person

Vecom Marine B.V.

E-mail

sales@vecom-marine.com

Revision

11/04/2022

SDS Version

2.0

Date of previous version

19/05/2021 (1.0)

▼ 1.4. Emergency telephone number

National Poisons Information Centre (NVIC): +31 (0)88-755-8000 (24 hour service)

Only intended to inform professional emergency services in case of acute poisoning.

See section 4 on first aid measures.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Corr. 1B; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

▼ Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Safety statement(s)

General

-

▼ Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

▼ Response

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage

-

▼ Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

▼ Hazardous substances

phosphoric acid ... %, orthophosphoric acid ... %

hydrogen chloride

Isotridecanol, ethoxylated (Imbentin T080/90)

2.3. Other hazards

Additional labelling

Not applicable

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

▼ 3.2. Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|---|--|-------|---|------|
| phosphoric acid ... %, orthophosphoric acid ... % | CAS No.: 7664-38-2 EC No.: 231-633-2 REACH: 01-2119485924-24-XXXX Index No.: 015-011-00-6 | 5-10% | Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314 (SCL: 25.00 %) Eye Dam. 1, H318 | [1] |
| hydrogen chloride | CAS No.: 7647-01-0 EC No.: 231-595-7 REACH: 01-2119484862-27-XXXX Index No.: 017-002-00-2 | 3-5% | Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335 (SCL: 10.00 %) | [1] |
| 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve | CAS No.: 111-76-2 EC No.: 203-905-0 REACH: 01-2119475108-36-XXXX Index No.: 603-014-00-0 | 1-3% | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 | [1] |

| | | | |
|--|---|------|--|
| Isotridecanol, ethoxylated (Imbentin T080/90) | CAS No.: 9043-30-5 EC No.: 500-027-2 REACH: Index No.: | 1-3% | Acute Tox. 4, H302 Eye Dam. 1, H318 |
|--|---|------|--|

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

▼ Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

▼ Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which

are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds.

Carbon oxides (CO / CO₂).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

▼ 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

No specific requirements

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

▼ 8.1. Control parameters

—
phosphoric acid ... %, orthophosphoric acid ... %

Short term exposure limit (15 minutes) (mg/m³): 2

Long term exposure limit (8 hours) (mg/m³): 1

—
hydrogen chloride

Short term exposure limit (15 minutes) (mg/m³): 15

Long term exposure limit (8 hours) (mg/m³): 8

—
2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve

Short term exposure limit (15 minutes) (mg/m³): 246

Long term exposure limit (8 hours) (mg/m³): 100

Annotations:

H = Special risk of dermal absorption.

Annex XIII of the Working Conditions Regulation, List of legal limit values.

DNEL

| | |
|-------------------|---|
| Product/substance | phosphoric acid ... %, orthophosphoric acid ... % |
| DNEL | 2.92 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Long term – Local effects - Workers |
| Product/substance | phosphoric acid ... %, orthophosphoric acid ... % |
| DNEL | 1 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Long term – Systemic effects - Workers |
| Product/substance | phosphoric acid ... %, orthophosphoric acid ... % |
| DNEL | 0.73 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Long term – Local effects - General population |
| Product/substance | hydrogen chloride |
| DNEL | 8 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Long term – Local effects - General population |
| Product/substance | hydrogen chloride |
| DNEL | 8 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Long term – Local effects - Workers |
| Product/substance | hydrogen chloride |
| DNEL | 15 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Short term – Local effects - Workers |
| Product/substance | hydrogen chloride |
| DNEL | 15 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Short term – Local effects - General population |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 89 mg/kg/d |
| Route of exposure | Dermal |
| Duration | Short term – Systemic effects - Workers |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 1091 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Short term – Systemic effects - Workers |

| | |
|-------------------|---|
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 246 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Long term – Local effects - Workers |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 125 mg/kg/d |
| Route of exposure | Dermal |
| Duration | Long term – Systemic effects - Workers |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 98 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Long term – Systemic effects - Workers |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 89 mg/kg/d |
| Route of exposure | Dermal |
| Duration | Short term – Systemic effects - General population |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 426 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Short term – Systemic effects - General population |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 26.7 mg/kg/d |
| Route of exposure | Oral |
| Duration | Short term – Systemic effects - General population |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 147 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Long term – Local effects - General population |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 75 mg/kg/d |
| Route of exposure | Dermal |
| Duration | Long term – Systemic effects - General population |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 59 mg/m ³ |
| Route of exposure | Inhalation |
| Duration | Long term – Systemic effects - General population |

| | |
|-------------------|---|
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| DNEL | 6.3 mg/kg/d |
| Route of exposure | Oral |
| Duration | Long term – Systemic effects - General population |

PNEC

| | |
|----------------------|-------------------|
| Product/substance | hydrogen chloride |
| PNEC | 36 µg/l |
| Route of exposure | Freshwater |
| Duration of Exposure | |

| | |
|----------------------|-------------------|
| Product/substance | hydrogen chloride |
| PNEC | 36 µg/l |
| Route of exposure | Marine water |
| Duration of Exposure | |

| | |
|----------------------|-------------------|
| Product/substance | hydrogen chloride |
| PNEC | 45 µg/l |
| Route of exposure | Water |
| Duration of Exposure | |

| | |
|----------------------|------------------------|
| Product/substance | hydrogen chloride |
| PNEC | 36 µg/l |
| Route of exposure | Sewage treatment plant |
| Duration of Exposure | |

| | |
|----------------------|---|
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| PNEC | 8.8 mg/l |
| Route of exposure | Freshwater |
| Duration of Exposure | |

| | |
|----------------------|---|
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| PNEC | 0.88 mg/l |
| Route of exposure | Marine water |
| Duration of Exposure | |

| | |
|----------------------|---|
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| PNEC | 463 mg/l |
| Route of exposure | Sewage treatment plant |
| Duration of Exposure | |

| | |
|----------------------|---|
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| PNEC | 34.6 mg/kg TG |
| Route of exposure | Freshwater sediment |
| Duration of Exposure | |

| | |
|-------------------|---|
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
|-------------------|---|

| | |
|----------------------|---|
| PNEC | ether;butyl cellosolve 3.46 mg/kg TG |
| Route of exposure | Marine water sediment |
| Duration of Exposure | |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| PNEC | 2.33 mg/kg TG |
| Route of exposure | Soil |
| Duration of Exposure | |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| PNEC | 26.4 mg/l |
| Route of exposure | Intermittent release |
| Duration of Exposure | |

▼ 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

▼ Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

▼ Respiratory Equipment


| Type | Class | Colour | Standards |
|-----------------------------------|-------|--------|-----------|
| No special when used as intended. | | | |

Skin protection


| Recommended | Type/Category | Standards |
|--|---------------|-----------|
| Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester. | - | - |



▼ Hand protection

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards | |
|----------|----------------------|--------------------------|-------------------------|---|
| Nitrile | 0.4 | > 480 | EN374-2, EN374-3, EN388 |  |

Eye protection

| Type | Standards | |
|--|-----------|---|
| Wear safety glasses with side shields. | EN166 |  |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless

Odour / Odour threshold

Characteristic

pH

<1

▼ Density (g/cm³)

1.06 (20 °C)

Kinematic viscosity

Testing not relevant or not possible due to nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to nature of the product.

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Relative vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Testing not relevant or not possible due to nature of the product.

[n-octanol/water coefficient](#)

Testing not relevant or not possible due to nature of the product.

[Solubility in fat \(g/L\)](#)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

▼ Other physical and chemical parameters

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

No special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

| | |
|-------------------|---|
| Product/substance | phosphoric acid ... %, orthophosphoric acid ... % |
| Test method | |
| Species | Rat |
| Route of exposure | Inhalation |
| Test | LC50 60min |
| Result | 3.846 mg/L |
| Other information | |

| | |
|-------------------|---|
| Product/substance | phosphoric acid ... %, orthophosphoric acid ... % |
| Test method | |
| Species | Rabbit |
| Route of exposure | Dermal |
| Test | LD50 |
| Result | 2740 mg/kg |
| Other information | |

| | |
|-------------------|---|
| Product/substance | phosphoric acid ... %, orthophosphoric acid ... % |
| Test method | |
| Species | Rat |
| Route of exposure | Oral |
| Test | LD50 |
| Result | >300 mg/kg |
| Other information | |

| | |
|-------------------|-------------------|
| Product/substance | hydrogen chloride |
|-------------------|-------------------|

Test method
 Species Rabbit
 Route of exposure Dermal
 Test LD50
 Result >5010 mg/kg
 Other information

Product/substance hydrogen chloride
 Test method
 Species Rat
 Route of exposure Inhalation
 Test LC50 60min
 Result 780.108879 mg/L
 Other information

Product/substance hydrogen chloride
 Test method
 Species Rat
 Route of exposure Oral
 Test LD50
 Result 700 mg/kg
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Rat
 Route of exposure Oral
 Test LD50
 Result >300 - 2000 mg/kg
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Guinea pig
 Route of exposure Oral
 Test LD50
 Result 1400 mg/kg
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Rat
 Route of exposure Dermal
 Test LD50
 Result >2000 mg/kg
 Other information

Skin corrosion/irritation

Causes severe skin burns and eye damage.

▼ **Serious eye damage/irritation**

Causes serious eye damage.

Respiratory sensitisation

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

Skin sensitisation

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

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

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

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

11.2. Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

No special

Other information

hydrogen chloride has been classified by IARC as a group 3 carcinogen.

2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------|---|
| Product/substance | phosphoric acid ... %, orthophosphoric acid ... % |
| Test method | |
| Species | Fish |
| Compartment | |
| Duration | 96 hours |
| Test | LC50 |
| Result | 3 - 3.25 mg/L |
| Other information | |

| | |
|-------------------|---|
| Product/substance | phosphoric acid ... %, orthophosphoric acid ... % |
| Test method | |
| Species | Algae |
| Compartment | |
| Duration | 72 hours |
| Test | EC50 |
| Result | >100 mg/L |
| Other information | |

| | |
|-------------------|---|
| Product/substance | phosphoric acid ... %, orthophosphoric acid ... % |
| Test method | |
| Species | Daphnia |
| Compartment | |
| Duration | 48 hours |

Test EC50
 Result >100 mg/L
 Other information

Product/substance phosphoric acid ... %, orthophosphoric acid ... %
 Test method
 Species Algae
 Compartment
 Duration 72 hours
 Test NOEC
 Result 100 mg/L
 Other information

Product/substance phosphoric acid ... %, orthophosphoric acid ... %
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test NOEC
 Result 56 mg/L
 Other information

Product/substance hydrogen chloride
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result 70.057 mg/L
 Other information

Product/substance hydrogen chloride
 Test method
 Species Algae
 Compartment
 Duration 96 hours
 Test EC50
 Result 344.947 mg/L
 Other information

Product/substance hydrogen chloride
 Test method
 Species Fish
 Compartment
 Duration 5 minutes
 Test NOEC
 Result 10 mg/L
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Fish

| | |
|-------------------|---|
| Compartment | |
| Duration | 96 hours |
| Test | LC50 |
| Result | 1464 mg/L |
| Other information | |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| Test method | |
| Species | Fish |
| Compartment | |
| Duration | 21 days |
| Test | NOEC |
| Result | >100 mg/L |
| Other information | |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| Test method | |
| Species | Daphnia |
| Compartment | |
| Duration | 48 hours |
| Test | EC50 |
| Result | 1550 mg/L |
| Other information | |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| Test method | |
| Species | Daphnia |
| Compartment | |
| Duration | 21 days |
| Test | NOEC |
| Result | 100 mg/L |
| Other information | |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| Test method | |
| Species | Algae |
| Compartment | |
| Duration | 72 hours |
| Test | EbC50 |
| Result | 911 mg/L |
| Other information | |
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| Test method | |
| Species | Bacteria |
| Compartment | |
| Duration | 16 hours |
| Test | EC 3 |
| Result | >700 mg/L |

Other information

| | |
|-------------------|---|
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| Test method | |
| Species | Bacteria |
| Compartment | |
| Duration | 48 hours |
| Test | EC 5 |
| Result | 463 mg/L |
| Other information | |

12.2. Persistence and degradability

| | |
|-------------------|---|
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| Biodegradable | Yes |
| Test method | OECD 301 B |
| Result | 90.4% in 28 d |

12.3. Bioaccumulative potential

| | |
|---------------------------|---|
| Product/substance | 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve |
| Test method | |
| Potential bioaccumulation | No data available |
| LogPow | 0.81 |
| BCF | No data available |
| Other information | |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

No special

12.7. Other adverse effects

No special

SECTION 13: Disposal considerations

▼ 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

Not applicable




Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

| | 14.1 UN / ID | 14.2 UN proper shipping name | 14.3 Hazard class(es) | 14.4 PG* | 14.5 Env** | Other information |
|------|--------------|---|---|----------|------------|--|
| ADR | UN1760 | CORROSIVE LIQUID, N.O.S. (phosphoric acid ... %, orthophosphoric acid ... %, hydrogen chloride) | Class: 8 Labels: 8 Classification code: C9  | II | No | Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information. |
| IMDG | UN1760 | CORROSIVE LIQUID, N.O.S. (phosphoric acid ... %, orthophosphoric acid ... %, hydrogen chloride) | Class: 8 Labels: 8 Classification code: C9  | II | No | Limited quantities: 1 L EmS: F-A S-B See below for additional information. |
| IATA | UN1760 | CORROSIVE LIQUID, N.O.S. (phosphoric acid ... %, orthophosphoric acid ... %, hydrogen chloride) | Class: 8 Labels: 8 Classification code: C9  | II | No | See below for additional information. |

* Packing group

** Environmental hazards

▼ Additional information

IMDG / See the Dangerous Goods List, section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

hydrogen chloride

Additional information

Not applicable

▼ Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Working Conditions Act 1998 and latest Working Conditions Decree of 01-01-2021.

Major Accident Hazards Decree 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼ Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

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.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

▼ Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

▼ **Additional information**

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

▼ **The safety data sheet is validated by**

RK

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: NL-en