

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 15 Jan 2025

Version: 1



Page 1/10

Urinsteinentferner

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

1.1. Product identifier

Trade name/designation:

Urinsteinentferner

Article No.:

343

UFI:

48NS-GTDK-DFDY-EV4H

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

Use of the substance/mixture:

Sanitärreiniger

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Otto Oehme GmbH

FEA

Industriestr. 20

90584 Allersberg

Germany

Telephone: 09176/98050

Telefax: 09176/980555

E-mail: Info@Oehme-Lorito.de

Website: www.Oehme-Lorito.de

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|-----------------------------------|--------------------------|
| Corrosive to metals (<i>Met. Corr. 1</i>) | H290: May be corrosive to metals. | |
| Skin corrosion/irritation (<i>Skin Irrit. 2</i>) | H315: Causes skin irritation. | |
| Serious eye damage/eye irritation (<i>Eye Dam. 1</i>) | H318: Causes serious eye damage. | |

2.2. Label elements

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

Hazard pictograms:



GHS05

Corrosion

Signal word: Danger

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 15 Jan 2025

Version: 1



Page 2/10

Urinsteinferner

Hazard components for labelling:

Phosphorsäure; Isotridecanol,ethoxylated; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Hazard statements for physical hazards

H290 May be corrosive to metals.

Hazard statements for health hazards

H315 Causes skin irritation.

H318 Causes serious eye damage.

Supplemental hazard information: none

Precautionary statements Prevention

P264 Wash Hände thoroughly after handling.

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

Precautionary statements Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/...

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|--|--|-----------------------|
| CAS No.: 7664-38-2 | Phosphorsäure Acute Tox. 4 (H302), Met. Corr. 1 (H290), Skin Corr. 1B (H314) ⚠️ Danger Specific concentration limit (SCL) Skin Corr. 1B; H314: $C \geq 25\%$ Skin Irrit. 2; H315: $10\% \leq C < 25\%$ Eye Dam. 1; H318: $C \geq 25\%$ Eye Irrit. 2; H319: $10\% \leq C < 25\%$ Acute Toxicity Estimate ATE (oral) 500 mg/kg ATE (dermal) 2,740 mg/kg | 10 - < 20 weight-% |
| CAS No.: 69011-36-5 | Isotridecanol,ethoxylated Acute Tox. 4 (H302), Eye Dam. 1 (H318) ⚠️ Danger Acute Toxicity Estimate ATE (oral) 300 - 2,000 mg/kg ATE (dermal) > 2,000 mg/kg | < 10 weight-% |
| CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH No.: 01-2119475104-44-XXXX | 2-(2-butoxyethoxy)ethanol Eye Irrit. 2 (H319) ⚠️ Warning Acute Toxicity Estimate ATE (oral) 2,410 mg/kg ATE (dermal) 2,764 mg/kg | < 5 weight-% |
| CAS No.: 85536-14-7 EC No.: 287-494-3 | Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Skin Corr. 1C (H314) ⚠️ Danger Acute Toxicity Estimate ATE (oral) 300 - 2,000 mg/kg ATE (dermal) > 2,000 mg/kg | 0 - < 3 weight-% |

Full text of H- and EUH-phrases: see section 16.

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 15 Jan 2025

Version: 1



Page 3/10

Urinsteinentferner

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation Serious eye damage/eye irritation

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Adjust to the environment

Unsuitable extinguishing media:

There are no restrictions on extinguishing agents for this mixture

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire hazardous combustion gases or vapors possible

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

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

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 15 Jan 2025

Version: 1



Page 4/10

Urinsteinentferner

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510, Germany): 8B - Non-combustible corrosive substances

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark |
|--------------------------------------|--|--|
| TRGS 900 (DE) | Phosphorsäure CAS No.: 7664-38-2 | ① 2 mg/m ³ ② 4 mg/m ³ ⑤ (einatembare Fraktion) DFG, EU, AGS, Y |
| IOELV (EU) | Phosphorsäure CAS No.: 7664-38-2 | ① 1 mg/m ³ ② 2 mg/m ³ |
| TRGS 900 (DE) from 1 Mar 2011 | 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | ① 10 ppm (67 mg/m ³) ② 15 ppm (100.5 mg/m ³) ⑤ (Aerosol und Dampf) EU, DFG, Y, 11 |
| IOELV (EU) | 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 | ① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³) |

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 15 Jan 2025

Version: 1



Page 5/10

Urinsteinentferner

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: red

Odour: parfümiert

flammability: No

Safety relevant basis data

| Parameter | Value | ① Method ② Remark |
|--|-----------------------|----------------------|
| pH | 1 | |
| Melting point | No data available | |
| Freezing point | No data available | |
| Initial boiling point and boiling range | No data available | |
| Flash point | No data available | |
| Evaporation rate | No data available | |
| Auto-ignition temperature | No data available | |
| Upper/lower flammability or explosive limits | No data available | |
| Vapour pressure | No data available | |
| Vapour density | No data available | |
| Density | 1.1 g/cm ³ | |
| Bulk density | not applicable | |
| Water solubility | miscible | |
| Dynamic viscosity | No data available | |
| Kinematic viscosity | No data available | |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

May be corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapors with: metals, light metals, metal alloys. It can develop: hydrogen. Violent reactions possible with: alkalis, metal oxides.

Oxidizing agent

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 15 Jan 2025

Version: 1



Page 6/10

Urinsteinferner

10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.

10.5. Incompatible materials

Aluminum, iron, ferrous compounds, steel. Hydrogen is given off through reaction with metals.
Corrosives, halogens, alkalis, acids, reactive chemicals

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

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

| |
|---|
| Phosphorsäure CAS No.: 7664-38-2 |
| LD₅₀ dermal: 2,740 mg/kg (Kaninchen) |
| Isotridecanol,ethoxylated CAS No.: 69011-36-5 |
| LD₅₀ oral: 300 - 2,000 mg/kg (Ratte) |
| LD₅₀ dermal: >2,000 mg/kg (Ratte) |
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 |
| LD₅₀ oral: 2,410 mg/kg (Mouse) |
| LD₅₀ dermal: 2,764 mg/kg (Rabbit) |
| Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. CAS No.: 85536-14-7 EC No.: 287-494-3 |
| LD₅₀ oral: 300 - 2,000 mg/kg (Ratte) Experimentell |
| LD₅₀ dermal: >2,000 mg/kg (Ratte) Abgeleitet von anderem Produkt |

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or 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.

Additional information:

No data available

11.2. Information on other hazards

No data available

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 15 Jan 2025

Version: 1



Page 7/10

Urinsteinentferner

SECTION 12: Ecological information

12.1. Toxicity

| |
|---|
| Phosphorsäure CAS No.: 7664-38-2 |
| EC ₅₀ : >100 mg/L 2 d (Daphnia magna) |
| ErC ₅₀ : >100 mg/L 3 d (Algae/water plant) |
| LC ₅₀ : 3 - 3.25 mg/L 4 d (Sonnenbarsch) |
| Isotridecanol,ethoxylated CAS No.: 69011-36-5 |
| LC ₅₀ : >1 - 10 mg/L 4 d (fish, Leuciscus idus) |
| EC ₅₀ : >1 - 10 mg/L 2 d (crustaceans) |
| EC ₅₀ : >1 - 10 mg/L 3 d (Algae/water plant) |
| NOEC: >1 mg/L 21 d (crustaceans) |
| LC ₅₀ : >1 - 10 mg/L (fish, Daphnia magna) |
| LC ₅₀ : >1 - 10 mg/L (fish) |
| EC ₅₀ : >1 - 10 mg/L 2 d (fish, Daphnia magna) |
| NOEC: >1 mg/L (Algae/water plant, Daphnia magna) |
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 |
| LC ₅₀ : 1,300 mg/L 4 d (Sonnenbarsch) OECD 203 |
| EC ₅₀ : >100 mg/L 2 d (Daphnia magna) |
| ErC ₅₀ : 1,101 mg/L 3 d (Algae/water plant) |
| Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. CAS No.: 85536-14-7 EC No.: 287-494-3 |
| LC ₅₀ : 1 - 10 mg/L (fish, Lepomis macrochirus) DIN EN ISO 7346-2 |
| EC ₅₀ : 1 - 10 mg/L (crustaceans, Daphnia magna) |
| NOEC: 0.1 - 1 mg/L (fish, Oncorhynchus mykiss) |
| NOEC: 1 - 10 mg/L (crustaceans, Daphnia magna) |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

| |
|---|
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 |
| Log K _{OW} : = 1 |
| Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. CAS No.: 85536-14-7 EC No.: 287-494-3 |
| Log K _{OW} : = 3.2 |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

| |
|---|
| Phosphorsäure CAS No.: 7664-38-2 |
| Results of PBT and vPvB assessment: — |
| Isotridecanol,ethoxylated CAS No.: 69011-36-5 |
| Results of PBT and vPvB assessment: — |
| 2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6 |
| Results of PBT and vPvB assessment: — |
| Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. CAS No.: 85536-14-7 EC No.: 287-494-3 |
| Results of PBT and vPvB assessment: — |

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 15 Jan 2025

Version: 1



Page 8/10

Urinsteinentferner

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

| | |
|------------|---|
| 20 01 29 * | (20) MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS (01) separately collected fractions (except 15 01) (29 *) Detergents containing hazardous substances |
|------------|---|

*: Evidence for disposal must be provided.

Waste code packaging





| | |
|----------|---|
| 20 01 39 | (20) MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS (01) separately collected fractions (except 15 01) (39) plastics |
|----------|---|

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|--|--|---|
| 14.1. UN number or ID number | | | |
| UN 1760 | UN 1760 | UN 1760 | UN 1760 |
| 14.2. UN proper shipping name | | | |
| CORROSIVE LIQUID, N.O.S. (Phosphorsäure, Lösung) | CORROSIVE LIQUID, N.O.S. (Phosphorsäure, Lösung) | CORROSIVE LIQUID, N.O.S. (Phosphorsäure, Lösung, n-Alkylbenzolsulfonsäure) | CORROSIVE LIQUID, N.O.S. (Phosphorsäure, Lösung) |
| 14.3. Transport hazard class(es) | | | |
|  8 |  8 |  8 |  8 |
| 14.4. Packing group | | | |
| II | II | II | II |
| 14.5. Environmental hazards | | | |
| No | No | No | No |
| 14.6. Special precautions for user | | | |
| Special Provisions: 274 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Hazard identification number (Kemler No.): 80 Classification code: C9 Tunnel restriction code: (E) | Special Provisions: 274 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Classification code: C9 | Special Provisions: 274 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 EmS-No.: F-A, S-B | Special Provisions: A3 Limited quantity (LQ): Y840 Excepted Quantities (EQ): E2 |

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 15 Jan 2025

Version: 1



Page 9/10

Urinsteinentferner

14.7. Maritime transport in bulk according to IMO instruments

Additional information:

The transport regulations are quoted according to international regulations and in the form in which they are used in Germany. Possible deviations in other countries are not taken into account.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

This product is not assigned to a hazard category.
Ingredients according to detergent regulation 648/2004 / EG:
Nonionic surfactants: Less than 5%
Anionic surfactants: Less than 5%.
Fragrances.

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

Beschäftigungsbeschränkungen für Jugendliche nach JArbSchG beachten.
Beschäftigungsbeschränkungen für werdende und stillende Mütter nach MuSchArbV beachten.

Water hazard class

WGK:

1 - slightly hazardous to water

Technische Regeln für Gefahrstoffe

TRGS 500 Schutzmaßnahmen: Mindeststandards
DGUV Vorschrift 1 Grundsätze der Prävention
DGUV Regel 112-189 Benutzung von Schutzkleidung
DGUV Regel 112-190 Benutzung von Atemschutzgeräten
DGUV Regel 112-192 Benutzung von Augen- und Gesichtsschutz
DGUV Regel 112-195 Benutzung von Schutzhandschuhen

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Merkblatt BG Chemie: M004 Reizende Stoffe/Ätzende Stoffe
M050 Umgang mit gesundheitsgefährlichen Stoffen
M053 Allgemeine Arbeitsschutzmaßnahmen für den Umgang mit Gefahrstoffen.

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|-----------------------------------|--------------------------|
| Corrosive to metals (<i>Met. Corr. 1</i>) | H290: May be corrosive to metals. | |
| Skin corrosion/irritation (<i>Skin Irrit. 2</i>) | H315: Causes skin irritation. | |
| Serious eye damage/eye irritation (<i>Eye Dam. 1</i>) | H318: Causes serious eye damage. | |

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

Print date: 15 Jan 2025

Version: 1



Page 10/10

Urinsteinentferner

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements | |
|-------------------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

16.6. Training advice

No data available

16.7. Additional information

The information is based on our current level of knowledge and is used to describe the product with regard to the safety precautions to be taken. They do not represent a guarantee of the properties of the product described.

It is the responsibility of the recipient of our product to observe existing laws and regulations.