

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

### 1.1 Product identifier

**Trade name:** uriSTRONG

**Article number:** UD535

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

**Application of the substance / the mixture** Delimiting agent

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

uridan waterless solutions GmbH  
Sandfeld 5  
A-2100 Stetten  
T: +43 660 696 33 54

**Further information obtainable from:**

Magdalena Schachinger  
E-mail: m.schachinger@uridan.com

### 1.4 Emergency telephone number:

+43 660 696 33 54  
Available during office hours:  
Mo - Th: 9. a. m. - 4 p. m.

**Call the national emergency number!**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Met. Corr.1 H290 May be corrosive to metals.

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

Eye Dam. 1 H318 Causes serious eye damage.

### 2.2 Label elements

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

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

**Hazard pictograms**



GHS05

**Signal word** Danger

**Hazard-determining components of labelling:**

phosphoric acid

**Trade name: uriSTRONG**

(Contd. of page 1)

**Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P234 Keep only in original packaging.

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves / eye protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

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.

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

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:**

Inorganic product. The criteria of the PBT assessment according to REACH are not applicable for inorganic substances.

**vPvB:**



Inorganic product. The criteria of the vPvB assessment according to REACH are not applicable for inorganic substances.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 7664-38-2	phosphoric acid	> 50 – ≤ 100%
EINECS: 231-633-2	 Met. Corr. 1, H290; Skin Corr. 1B, H314	
Index number: 015-011-00-6	 Acute Tox. 4, H302	
Reg.nr.: 01-2119485924-24-XXXX	Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Dam. 1; H318: C ≥ 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information:**

In case of discomfort or doubt, seek medical advice.

(Contd. on page 3)

**Trade name: uriSTRONG**

(Contd. of page 2)

If unconscious, use a stable lateral position and do not administer anything through mouth.  
Immediately remove any clothing soiled by the product.

**After inhalation:**

Provide fresh air, if necessary rescue breathing, warming. Consult a physician immediately.  
In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
Take off immediately all contaminated clothing and wash it before reuse.  
Seek medical treatment.

**After eye contact:**

Rinse opened eye for several minutes under running water.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a doctor immediately.

**After swallowing:**

Do NOT induce vomiting.  
Rinse mouth.  
Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

Causes burns.  
Causes serious eye damage.

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

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.  
**For safety reasons unsuitable extinguishing agents:** Water with full jet

**5.2 Special hazards arising from the substance or mixture**

Not combustible.  
During heating or in case of fire poisonous gases are produced.  
In case of fire, the following can be released:

POx

**5.3 Advice for firefighters**

**Protective equipment:**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

**Additional information**

Precipitate gases/vapours with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Restricted access to the affected area until cleaning work is completed.  
Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)

**Trade name: uriSTRONG**

(Contd. of page 3)

Ensure adequate ventilation

Avoid contact with skin and eyes.

Do not breathe vapour/spray.

**6.2 Environmental precautions:** Do not allow large quantities to enter drains/surface water/groundwater.

**6.3 Methods and material for containment and cleaning up:**

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Prevent formation of aerosols.

Avoid contact with skin and eyes.

Avoid breathing mist/vapours/spray.

Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.

Use personal protective equipment as required.

Observe protective measures and safety instructions.

**Information about fire - and explosion protection:** No special measures required.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store in a dry, cool, well-ventilated area.

Store only in the original receptacle.

Store in accordance with local/regional/national/international regulations.

**Information about storage in one common storage facility:** Store away from incompatible materials.

**Further information about storage conditions:** Keep container tightly sealed.

**Recommended storage temperature:** room temperature

**Storage class:** 8 B

**7.3 Specific end use(s)** No further relevant information available.

**\* SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:**

Observe the member state specific regulations!

(Contd. on page 5)

**Trade name: uriSTRONG**

(Contd. of page 4)

<b>CAS: 7664-38-2 phosphoric acid</b>	
IOELV (EU)	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
MAK (Austria)	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
AGW (Germany)	Long-term value: 2 E mg/m <sup>3</sup> 2(I);DFG, EU, AGS, Y
LEP (Spain)	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup> VLI, s
VLEP (France)	Short-term value: 2 mg/m <sup>3</sup> , 0.5 ppm Long-term value: 1 mg/m <sup>3</sup> , 0.2 ppm
WEL (Great Britain)	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
TWA (Italy)	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
VL (Italy)	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
WGW (Netherland)	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>

**Regulatory information**

IOELV (EU): (EU) 2019/1831

MAK (Austria): GKV 2018, 254. Verordnung, 24.9.2018, Teil II

AGW (Germany): TRGS 900

LEP (Spain): Límites de exposición profesional para agentes químicos

VLEP (France): ED 1487 12.2019

WEL (Great Britain): EH40/2020

TWA (Italy): Valori Limite di Soglia

VL (Italy): D.lgs. n. 81/2008

WGW (Netherland): Grenswaarden gezondheidsschadelijke stoffen

**DNELs**

<b>CAS: 7664-38-2 phosphoric acid</b>		
Oral	Long-term exposure - systemic effects	0.1 mg/kg bw/d (consumer)
Inhalative	Long-term exposure - systemic effects	4.57 mg/m <sup>3</sup> (consumer) 10.7 mg/m <sup>3</sup> (workers)
	Long-term exposure - local effects	0.36 mg/m <sup>3</sup> (consumer) 1 mg/m <sup>3</sup> (workers)
	short-term exposure - local effects	2 mg/m <sup>3</sup> (workers)

**PNECs** No data available.

**Additional information:** The lists valid during the making were used as basis.

(Contd. on page 6)

**Trade name: uriSTRONG**

(Contd. of page 5)

**8.2 Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

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

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:**



Protective gloves

EN 374

**Material of gloves**

Material recommendation:

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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

**Penetration time of glove material**

Breakthrough time:  $>480$  min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles

EN 166

**Body protection:**

Acid resistant protective clothing

Select type and quality of protection clothes depending on concentration and quantity at the workplace.

(Contd. on page 7)

**Trade name: uriSTRONG**

(Contd. of page 6)

**Limitation and supervision of exposure into the environment**

Do not allow to enter sewers/ surface or ground water.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

**Appearance:**

**Form:** Fluid  
**Colour:** Colourless  
**Odour:** Odourless  
**Odour threshold:** Not applicable.

**pH-value at 20 °C:** < 1

**Change in condition**

**Melting point/freezing point:** -20 °C  
No information available.

**Initial boiling point and boiling range:** 135 °C

**Flash point:** Not applicable.

**Flammability (solid, gas):** Not applicable.

**Decomposition temperature:** No information available.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:**

**Lower:** Not applicable.  
**Upper:** Not applicable.

**Oxidising properties** None.

**Vapour pressure at 20 °C:** 23 hPa

**Density at 20 °C:** 1.57 g/cm<sup>3</sup>

**Vapour density** No information available.

**Evaporation rate** Not determined.

**Solubility in / Miscibility with**

**water:** Fully miscible.

**Partition coefficient: n-octanol/water:** No information available.

**Viscosity:**

**Dynamic:** No information available.  
**Kinematic:** No information available.

**9.2 Other information** No further relevant information available.

(Contd. on page 8)

Trade name: uriSTRONG

(Contd. of page 7)

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability** No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

Reacts with alkali and metals.

Reactions with metal oxides.

Reacts with metals forming hydrogen.

Danger of explosion.

**10.4 Conditions to avoid** Protect from heat and direct sunlight.

**10.5 Incompatible materials:** Alkalis, metals, metal alloys, metal oxides.

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

#### LD/LC50 values relevant for classification:

#### ATE (Acute Toxicity Estimates)

Oral	LD50	2,040 mg/kg (rat)
------	------	-------------------

#### CAS: 7664-38-2 phosphoric acid

Oral	LD50	1,530 mg/kg (rat)
------	------	-------------------

Dermal	LD50	2,740 mg/kg (rabbit)
--------	------	----------------------

#### Primary irritant effect:

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

#### Other information:

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

**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.

(Contd. on page 9)



Trade name: uriSTRONG

(Contd. of page 8)

## SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic toxicity:**

**CAS: 7664-38-2 phosphoric acid**

EC50 (48 h) > 100 mg/l (daphnia) (Daphnia magna)

EC50 (72 h) > 100 mg/l (algae) (Desmodesmus subspicatus)

### 12.2 Persistence and degradability

For inorganic ingredients, the methods for determining biodegradability are not applicable.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:**

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

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

### 12.5 Results of PBT and vPvB assessment

**PBT:**

Inorganic product. The criteria of the PBT assessment according to REACH are not applicable for inorganic substances.

**vPvB:**

Inorganic product. The criteria of the vPvB assessment according to REACH are not applicable for inorganic substances.

**12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Recommendation**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Only dispose of product residues via authorised companies according to local legislation.

**European waste catalogue**

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

06 01 04\* phosphoric and phosphorous acid

(Contd. on page 10)

**Trade name: uriSTRONG**

(Contd. of page 9)

**Uncleaned packaging:**

**Recommendation:**

Empty the container completely and send it to a qualified specialist company for reconditioning, recycling or waste disposal.

**SECTION 14: Transport information**

**14.1 UN-Number**

ADR/RID/ADN, IMDG, IATA UN1805

**14.2 UN proper shipping name**

ADR/RID/ADN 1805 PHOSPHORIC ACID, SOLUTION  
IMDG, IATA PHOSPHORIC ACID, SOLUTION

**14.3 Transport hazard class(es)**

ADR/RID/ADN, IMDG, IATA



**Class** 8 Corrosive substances.

**Label** 8

**14.4 Packing group**

ADR/RID/ADN, IMDG, IATA III

**14.5 Environmental hazards:** Not applicable.

**14.6 Special precautions for user** Warning: Corrosive substances.

**Hazard identification number (Kemler code):** 80

**EMS Number:** F-A,S-B

**Segregation groups** Acids

**Stowage Category** B

**Stowage Code** SW2 Clear of living quarters.

**14.7 Transport in bulk according to Annex II of**

**Marpol and the IBC Code** Not applicable.

**Transport/Additional information:**

**ADR/RID/ADN**

**Limited quantities (LQ)** 5L

**Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

**Transport category** 3

**Tunnel restriction code** E

(Contd. on page 11)

Trade name: uriSTRONG

(Contd. of page 10)

**IMDG**

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

\* **SECTION 15: Regulatory information**

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

**Training hints**

Regular training of staff involved in the transport of dangerous goods (in accordance with Chapter 1.3 ADR).

Before handling, storage or use for the first time, employees must be informed about the properties of the substance and about measures taken to ensure safety and environmental protection.

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

Skin corrosion/irritation

Serious eye damage/eye irritation

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Department issuing SDS:**

UmEnA GmbH

<http://umena.at>

**Abbreviations and acronyms:**

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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 12)

**Trade name: uriSTRONG**

---

(Contd. of page 11)

ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Met. Corr. 1: Corrosive to metals – Category 1  
Acute Tox. 4: Acute toxicity - oral – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
**\* Data compared to the previous version altered.**

---