

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

uriStrong

Product no.

UD535

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

NA

Uses advised against

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The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

uridan waterless solutions GmbH
Schuster Strasse 2b/1a
AT-2111 Tresdorf b. Korneuburg
Austria

Contact person

Astrid Pfister

E-mail

a.pfister@uridan.at

SDS date

2016-10-11

SDS Version

2.0

1.4. Emergency telephone number

Use your national or local emergency number
See section 4 "First aid measures"

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Met. Corr. 1; H290

Skin Corr. 1B; H314

Eye Dam. 1; H318

See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

	General	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
▼ Safety statement(s)	Prevention	Do not breathe mist/vapours/fume/spray. (P260).
	Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. (P303+P361+P353).
	Storage	Store locked up. (P405).
	Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

orthophosphoric acid

▼ 2.3. Other hazards

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Additional labelling

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Additional warnings

Tactile warning. If this product is sold retail, it has to be delivered in a child proof container.

VOC

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SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	orthophosphoric acid
IDENTIFICATION NOS.:	CAS-no: 7664-38-2 EC-no: 231-633-2 REACH-no: 01-2119485924-24-xxxx Index-no: 015-011-00-6
CONTENT:	60-80%
CLP CLASSIFICATION:	Met. Corr. 1, Skin. Corr. 1B H290, H314

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

Other informations

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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 physician, if there is doubt about the injured persons condition, or the symptoms continuous. Do not ever give the unconscious person water or alike.

Inhalation

Place the injured person in fresh air. Make sure to watch the injured person. Prevent chock by keeping the injured person warm and calm. If the person stops breathing, give mouth-to-mouth. If unconscious, put the injured person into the natal-position. Call for an ambulance.

Skin contact

Remove contaminated clothing and shoes. If there has been contact to some skin, wash is thoroughly with water and soap. Skin cleansing remedies can be used. DO NOT use organic solvents or a thinner.

Eye contact

Remove contact lenses. Flush eyes with plenty of water (20-30 °C) until irritation stops, or continue for at least 15 minutes. Make sure to flush under the upper and lower eyelid. Contact a physician at once.

Ingestion

Give the person plenty to drink and keep the person under watch. If fainting: Contact a physician immediately and bring along this security datasheet or the label from the product. Do not induce vomiting, unless recommended by the physician. Lower the persons head, so that vomit do not run back into the mouth or throat.

Burns

Not applicable

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

Tissue damaging effects: This product contains substances which are etching. Damage on lungs, an

irritation, and burn in the respiratory system as well as a cough occurs in case that damp or aerosols are inhaled. Etching substances causes irreversible damage to the eyes. Will cauterize the skin.

Irritable effects: This product contains substances which are irritable to skin and eyes, or when inhaled. A result of contact with a locally irritable substances, can be, that the area of contact, will be more pruned to take-in of damaging substances such as allergens.

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

Non specific.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommendation: alcohol resistant foam, carbonic acid, powder, fog. Usage of a water beam is forbidden, since it can spread the fire.

5.2. Special hazards arising from the substance or mixture

Non specific.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances. Avoid inhalation of damps from wasted substances.

6.2. Environmental precautions

No specific demands.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. If possible, clean with cleaning supplies. Solvents should be avoided.

6.4. Reference to other sections

See section 13 regarding handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, consumption of food and liquids as well as storage of tobacco, foods and liquids is not allowed in the room. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Always store in the same container as the original material. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature

Frost-free

7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

▼ OEL

orthophosphoric acid (EH40, 2005)

Long-term exposure limit (8-hour TWA reference period): - ppm | 1 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | 2 mg/m³

▼ DNEL / PNEC

No data available

8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

General recommendations

Observe general occupational hygiene.

Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

Exposure limits

Trade users should encompass the rules of the work environment legislation on maximum concentrations of exposure. See work hygienic threshold limiting values below.

Appropriate technical measures

Airborne gas and dust concentrations, must be kept lowest possible and under the existing threshold limiting values (see below). In case the air streams in the work room is not sufficient, use for example a exhaust. Make sure there is visible signs for eye cleanser and shower.

Hygiene measures

When taking breaks, while using this product, and when work sub seeds, all exposed areas of the body has to be washed.

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

Recommended: B. Gray

▼ Skin protection

specific work clothing should be used. When working with this product for a longer period of time, use protection gear.

▼ Hand protection

Recommended: Nitrile rubber. Discard immediately after use

▼ Eye protection

Use safety glasses with a side shield.

SECTION 9: Physical and chemical properties

▼ 9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Colourless
Odour	None
pH	<1
Viscosity	No data available.
Density (g/cm ³)	1,57

▼ Phase changes

Melting point (°C)	-20
Boiling point (°C)	135
Vapour pressure	No data available.

▼ Data on fire and explosion hazards

Flashpoint (°C)	No data available.
Ignition (°C)	No data available.
Self ignition (°C)	No data available.
Explosion limits (Vol %)	No data available.

▼ Solubility

Solubility in water	Soluble
n-octanol/water coefficient	No data available.

▼ 9.2. Other information

Solubility in fat (g/L)	No data available.
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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.

10.3. Possibility of hazardous reactions

Non specific.

10.4. Conditions to avoid

Overpressure develops, when exposed to heating (e.g.. sunlight).

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reductants 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 toxicological effects

Acute toxicity

Substance	Species	Test	Route of exposure	Result
orthophosphoric acid	Rat	LD50	Oral	2600 mg/kg
orthophosphoric acid	Rat	LC50	Inhalation	1,69 mg/l
orthophosphoric acid	Rabbit	LD50	Dermal	2740 mg/kg

▼ Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

Data on substance: orthophosphoric acid
No adverse effect observed.

Reproductive toxicity

Data on substance: orthophosphoric acid
No adverse effect observed.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

▼ Long term effects

Tissue damaging effects: This product contains substances which are etching. Damage on lungs, an irritation, and burn in the respiratory system as well as a cough occurs in case that damp or aerosols are inhaled. Etching substances causes irreversible damage to the eyes. Will cauterize the skin.

Irritable effects: This product contains substances which are irritable to skin and eyes, or when inhaled. A result of contact with a locally irritable substances, can be, that the area of contact, will be more pruned to take-in of damaging substances such as allergens.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Duration	Result
orthophosphoric acid	Fish	LC50	96 h	138 mg/l
orthophosphoric acid	Crustacean	EC50	48 h	>100 mg/l
orthophosphoric acid	Algae	NOEC	72 h	100 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
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According to EC-Regulation 1907/2006 (REACH)

No data available.

12.3. Bioaccumulative potential

Substance
orthophosphoric acid

Potential bioaccumulation
No

LogPow

No data available

BCF

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

▼ 12.6. Other adverse effects

No special

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product should be treated as dangerous waste.

Waste

EWC code

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Specific labelling

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Contaminated packing

Get at once rid of wrappings, which contains leftovers from the product (the same way as the product).

SECTION 14: Transport information

14.1 – 14.4

This product is included in the regulation of dangerous goods.

▼ ADR/RID

14.1. UN number 1805

14.2. UN proper shipping name -

14.3. Transport hazard class(es) 8

14.4. Packing group III

Notes -

Tunnel restriction code -

IMDG

UN-no. 1805

Proper Shipping Name PHOSPHORIC ACID SOLUTION

Class -

PG* III

EmS F-A, S-B

MP** no

Hazardous constituent -

▼ IATA/ICAO

UN-no. 1805

Proper Shipping Name PHOSPHORIC ACID SOLUTION

Class -

PG* III

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC.

Demands for specific education

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Additional information

Sources

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

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).
EC regulation 1907/2006 (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.

H314 - Causes severe skin burns and eye damage.

The full text of identified uses as mentioned in section 1

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Other symbols mentioned in section 2

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Other

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.

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.

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

The safety data sheet is validated by

Rikke Hunskjær

Date of last essential change (First cipher in SDS version)

2016-02-04

Date of last minor change (Last cipher in SDS version)

2016-02-04