

# Safety Data Sheet

Issue Date: January 2023

Version 1.2

Product Name: **uriSTRONG**

Classified as hazardous

## 1. Identification

**GHS Product:** uriSTRONG**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

SUMS Group Pty Ltd  
6/20 Narabang Way  
Belrose NSW 2085  
Tel: 02 9986 2700

**Further information obtainable from:**

Margrethe Ingemann - Email: margrethem@sums.com.au

**Emergency telephone number:** 1300 368 603 / 0450 321 965

Use your national or local emergency number - See section 4 "First Aid Measures"

**Other Names:** Phosphoric Acid 85%

## 2. Hazard identification

**GHS classification of the substance**

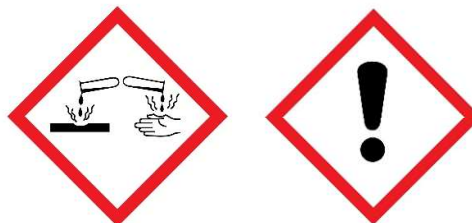
Corrosive to Metals: Category 1  
Skin Corrosion/Irritation: Category 1B  
Acute Toxicity - Inhalation: Category 4

**Signal Word(s)**

DANGER

**Hazard Statement(s)**

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.

**Pictogram(s)****Precautionary Statement – Prevention**

P234 Keep only in original container.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection

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## Precautionary Statement – Response

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

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

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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 or doctor/physician.

P390 Absorb spillage to prevent material damage.

## Precautionary Statement – Storage

P405 Store locked up.

P406 Store in corrosive resistant/container with a resistant inner liner.

## Precautionary Statement – Disposal

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

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### 3. Composition and information on ingredients

**Chemical Characterisation:** Mixture of substances listed below:  
CAS: 7664-38-2 Phosphoric Acid 85%  
CAS: 7732-18-5 Water to make a total of 100%

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### 4. First-Aid Measures

**Inhalation:** If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.

**Ingestion:** Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

**Skin Contact:** Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Wash contaminated clothing before re-use. Seek medical advice /attention depending on the severity.

**After eye contact:** Immediately rinse with copious quantity of water for at least 15 minutes. Eyelids to be held open. Remove contact lenses, if present and easy to do so. Continue rinsing. Call a doctor immediately.

**First Aid Facilities:** Maintain eyewash found and safety shower in work area

**Advice to Doctor:** Causes burns. Causes serious eye damage.  
Treat according to the condition of the patient, assess symptoms and the overall general condition.  
For advice, contact the National Poisons Centre (Phone Australia 13 11 16) or a Doctor.

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### 5. Fire Fighting Measures

Avoid inhalation and ingestion. Avoid contact with skin, eyes and clothing. Evacuate the area of all non-essential personnel

**Personal Protection** Wear protective clothing specifies for normal operations (see Section 8)

**Extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions

**Specific Methods:** Small fire: Use dry chemical, CO<sub>2</sub> or water spray  
Large fire: Use water spray, fog or foam – Do NOT use water jets

If safe, move undamaged containers from fire area. Cool containers with water until fire is out. Avoid getting water inside the containers.

Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gasses. Containers may explode when heated.

Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective.

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### 6. Accidental Release Measures

#### 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.  
Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapour/spray.

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

Small spillages: Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking container in a labelled drum or overdrum.

Large spillages: Seek expert advice on handling and disposal

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### 7. Handling and Storage

#### Precautions for safe handling

Avoid prolonged or repeated contact with skin, eyes and clothing. Wash hands and face thoroughly after working with material. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatible materials.

#### Conditions for safe storage, including any incompatibles.

Store in well ventilated area. Store away from foodstuffs. Keep containers securely sealed and protected against physical damage. Store away from sources of heat or ignition. Keep dry and protect from direct sunlight. Protect from freezing.

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**Storage**

Store in well ventilated area. Store away from foodstuffs. Keep containers securely sealed and protected against physical damage. Store away from sources of heat or ignition. Keep dry and protect from direct sunlight. Protect from freezing.

**Corrosiveness**

Extremely corrosive in presence of copper, brass and stainless steel. Highly corrosive in presence of aluminium. Mild corrosive effect on bronze. Corrosive to ferrous metals and alloys. Non-corrosive in presence of glass.

**Storage Regulations**

Refer Australian Standard AS 3780 - 1994 'The storage and handling of corrosive substances'.

## 8. Exposure controls and personal protection

|                                       |
|---------------------------------------|
| <b>CAS: 7664-38-2 Phosphoric acid</b> |
|---------------------------------------|

|      |                                       |
|------|---------------------------------------|
| STEL | Short-term value: 3 mg/m <sup>3</sup> |
| TWA  | Long-term value: 1 mg/m <sup>3</sup>  |

**Other Exposure Information**

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

A time weighted average (TWA) has been established for Phosphoric acid (Safe Work Australia) of 1 mg/m<sup>3</sup>. The corresponding STEL level is 3 mg/m<sup>3</sup>. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week.

**Appropriate Engineering Controls**

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.

**Respiratory protection:**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**Eye Protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

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## Hand Protection

Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste. Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.

## Personal Protective Equipment

Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian or other approved standards.

## Footwear

Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

## Body Protection

Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

## Hygiene Measures

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

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## 9. Physical and Chemicals Properties

|                               |                                      |
|-------------------------------|--------------------------------------|
| <b>Form</b>                   | Liquid                               |
| <b>Appearance</b>             | Clear, colourless, syrupy liquid     |
| <b>Odour</b>                  | Odourless                            |
| <b>Melting Point</b>          | 21 °C                                |
| <b>Boiling Point</b>          | 158 °C                               |
| <b>Solubility in Water</b>    | Soluble in water                     |
| <b>Specific Gravity</b>       | 1.685                                |
| <b>pH</b>                     | 1 (100 g/l, H <sub>2</sub> O, 20 °C) |
| <b>Vapour Pressure</b>        | 2.2 hPa                              |
| <b>Vapour Density (Air=1)</b> | 3.4 (pure)                           |
| <b>Flammability</b>           | Non-combustible material             |
| <b>Molecular Weight</b>       | 98.0                                 |

## 10. Stability and Reactivity

**Chemical Stability** Stable under normal use conditions.

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**Conditions to Avoid** Incompatibles.**Incompatible Materials** Acetulides, alcohols, aldehydes, amides, amines, ammonia or bleach, azo-compounds, carbides, carbamates, caustics, chlorides, combustible materials, cyanides, esters, epoxides, fluorides, glycols, halogenated organics, ketones, mercaptans, nitromethane, organic peroxides, organophosphates, phenols and cresols, phosphides, silicides, sodium tetrahydroborate, strong caustics, stainless steel, sulfides and unsaturated halides.**Possibility of hazardous Reactions** Phosphoric acid decomposes under formation of toxic fumes on contact with alcohols, cyanides, ketones, phenols, esters, sulfides, mercaptans and halogenated organic compounds. Liberates explosive hydrogen gas when reacting with chlorides and stainless steel. Exothermic reactions with aldehydes, amines, amides, alcohols and glycols, azo-compounds, carbamates, esters, caustics, phenols and cresols, organophosphates, epoxides, explosives, combustible materials, unsaturated halides, sodium tetrahydroborate, organic peroxides.**Hazardous Polymerization** Will not occur.

## 11. Toxicological Information

**Acute Toxicity - Oral** LD50 (rat): 1,530 mg/kg (anhydrous) (IUCLID)**Acute Toxicity – Dermal Ingestion** LD50 (rabbit): 2,740 mg/kg (anhydrous)(IUCLID)**Ingestion** Burns to the mouth, throat and stomach. Symptoms include sour acid taste, coughing, difficult breathing and swallowing, conjunctivitis, severe gastrointestinal irritation, nausea, vomiting, bloody diarrhoea, severe abdominal pains, extreme thirst, convulsions.**Inhalation** Harmful if inhaled. Vapour or mist can cause irritation of the nose, throat, and upper respiratory tract. Severe exposures can lead to a chemical pneumonitis.**Skin** Corrosive. Concentrated acid solutions can cause redness, pain, itching, scaling, occasional blistering, and severe skin burns.**Eye** Mists may cause eye irritation. Symptoms include of redness, pain, tearing, eyelid spasms, blurred vision, chemical conjunctivitis, burns and permanent eye damage. risk of blindness!**Carcinogenicity** No evidence of carcinogenic properties.**Chronic Effects** Dermatitis may occur from prolonged or repeated skin contact. Prolonged or over exposure to phosphoric acid can increase fluid levels in the lungs (pulmonary oedema). May cause clammy skin and dermatitis, weak and rapid pulse, shallow respiration, very little urine, bronchitis, shortness of breath. Severe exposure to phosphoric acid can lead to shock, circulatory collapse and death.

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**Mutagenicity** No evidence of mutagenic effects.

## 12. Ecological Information

**Ecotoxicity** Quantitative data on the ecological effect of this product are not available

**Bio-accumulative Potential** Phosphate (formed when phosphoric acid is dissolved) is unlikely to bioaccumulate in most aquatic species.

**Information on Ecological Effects** Excessive amounts of phosphoric acid can affect the pH shift leading to a potential risk to aquatic organisms

**Boiling Point** 158 °C

**Solubility in Water** Soluble in water

**Specific Gravity** 1.685

## 13. Disposal Considerations

**Disposal Considerations** Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

**Container Disposal** Dispose container as hazardous waste.

## 14. Transport information

**Transport Information** Dangerous goods Class 8 (corrosive) are compatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.

**U.N. Number** 1805

**UN Proper Shipping Name** Phosphoric Acid

**Transport Hazard Class** 8 Corrosive Substances

**Hazchem Code** 2R

**Packing Method** 3.8.8RT8

**Packing Group** III

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**EPG Number** 8A1  
**IERG Number** 37

## 15. Regulatory information

**Regulatory Information** Safety, health and environmental regulations/legislation specific for the substance  
**Australian Inventory of Chemical Substances** – All ingredients listed  
 Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals

### Standard for the Uniform Scheduling of Medicines and Poisons:

|                                       |    |
|---------------------------------------|----|
| <b>CAS: 7664-38-2 Phosphoric acid</b> | S6 |
|---------------------------------------|----|

**GHS label elements** This product is classified and labelled according to the Globally Harmonised System (GHS).

### Hazard Pictograms



**Signal Word** Danger

### Hazard-determining components of labelling:

Phosphoric Acid

### Hazard Statements:

May be corrosive to metals  
 Causes severe skin burns and eye damage  
 Harmful if inhaled

### Precautionary Statements

If medical advice is needed, have product container or label at hand.  
 Keep out of reach of children.  
 Keep only in original container.  
 Do not breathe mist/vapours/spray.  
 Wear protective gloves / eye protection.  
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.



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IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

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### 16. Regulatory information

#### Literature References

'Standard for the Uniform Scheduling of Medicines and Poisons.', Commonwealth of Australia  
Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.  
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.  
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.  
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.  
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.  
Safe Work Australia, 'Hazardous Chemical Information System, 2005'.  
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.  
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'

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