

# Material Safety Data Sheet

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

## 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

**Product name** URIC ACID REMOVAL POWDER  
**Product use:** Cleaning agent for the removal of Uric Acid build up in urinals and the foot step tread  
**Company:** 3C Chemical Laboratories Pty Ltd  
**Address:** B6/366 Edgar Street  
 Condell Park NSW 2200  
**Telephone:** 02 9773 4000  
**Fax:** 02 9773 4500  
**EMERGENCY TELEPHONE NUMBER:** 02 9773 4000 (Business hours)

## 2. HAZARDS IDENTIFICATION

### Hazard classification

- Classified as hazardous according to criteria of NOHSC.
- Classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

### Risk & Safety Phrases

R34 – Cause burns.

R37 – Irritating to respiratory system.

S2 – Keep out of reach of children.

S23 – Do not breathe fumes.

S26 – In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S36/37/39 – Wear suitable protective gloves, clothing and eye/face protection.

S45 – In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS	Proportion (%)
Sodium Bisulphate	7681-38-1	<50%
Sulfamic acid	5329-14-16-	10-30%
Sodium Bicarbonate	n/a	<10%
Other components	n/a	To make 100%

## 4. FIRST AID MEASURES

### Route of exposure

**Ingestion:** If swallowed, do NOT induce vomiting. Contact a Poisons Information Centre (Phone 13 1126) or a doctor at once.

**Eye contact:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until

PRODUCT NAME : URIC ACID REMOVAL POWDER  
 VERSION : 1.1  
 REVISION DATE : 01.09.12

# Material Safety Data Sheet

---

## CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

---

advised to stop by the Poisons information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If skin burns or other symptoms develop seek medical advice.

**Inhalation:** Remove victim to fresh air and seek immediate medical advice.

### Other information

**Advice to doctor:** Treat symptomatically.

**First aid facilities:** Eye wash and normal washroom facilities should be available.

**Other first aid advice:** Apply resuscitation if not breathing – **Do not use direct mouth-to-mouth method** if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device – Administer oxygen if breathing is difficult. Keep victim warm and quiet. Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved, and take precautions to protect themselves.

---

## 5. FIRE-FIGHTING MEASURES

**Specific hazards:** This product is non-combustible. However, as this product may react exothermically with water care should be taken when using water as an extinguishing agent for fires involving this product. The heat of the exothermic reaction may be enough to ignite combustible materials.

**Hazardous combustion products:** This product is non-combustible. However, thermal decomposition will result in the release of toxic/irritating fumes including hydrogen chloride and flammable hydrogen gas.

**Suitable extinguishing media:** This product is non-combustible. Choose a suitable fire extinguisher for the surrounding environment. However, as hydrochloric acid may react exothermically with water, dry chemical or carbon dioxide may be preferable fire fighting mediums.

**Special protective precautions and equipment for fire-fighter's:** Fire-fighter's should wear self-contained breathing apparatus and full protective clothing. Fire exposed containers should be cooled with flooding quantities of water until well after fire is out, taking care not to allow water inside product containers. If safe to do so, move undamaged containers from fire area. Containers may explode in a fire, causing the container or parts of the container to rocket great distances, in many directions. Runoff from fire control or dilution may be poisonous and/or corrosive and may pollute waterways.

**Hazchem code:** 1T

---

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures:** Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours – Water spray may be used to knock down or divert vapour clouds. **DO NOT GET WATER INSIDE CONTAINERS.**

**Personal precautions:** For emergency situations wear self-contained breathing apparatus and acid-resistant chemical splash suit. Refer to Section 8 for more information.

**Methods and material for containments and clean up:** Cover with DRY earth, sand or other non-combustible material followed by plastic sheet to minimise spreading or contact with rain. Collect absorbed material and dispose

---

PRODUCT NAME	:	URIC ACID REMOVAL POWDER
VERSION	:	1.1
REVISION DATE	:	01.09.12

---

# Material Safety Data Sheet

---

## CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

---

of appropriately. Commercially available chemical spill kit may also be used. Small spills may be washed down with large amounts of water. Emergency services should be contacted in the event of a large spill.

### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with incompatible materials. Wear suitable protective clothing, gloves and eye/face protection.

**Storage:** Store in a cool place. Keep securely closed when not in use and protected from direct sunlight and moisture. Store away from incompatible materials and sources of heat. Store in such a manner as to prevent spillage. Packages should be kept on surfaces which, in the event of spillage, are resistant to damage by this product. Storage areas should be secured against unauthorized entry. Store away from foodstuffs.

**Hygiene:** Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash hands after use.

**Other information:** For further information on the storage and handling of this product reference should be made to Australian Standard AS 3780 – The storage and handling of corrosive substances. Reference should also be made to any relevant Commonwealth, State or Territory regulations.

---

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory protection:** If engineering controls are not effective in controlling airborne exposure then suitable respiratory protection should be worn. At concentrations up to 10X the TWA exposure limit the following respirators may be used:

- Inorganic acid gas filter with half facepiece – replaceable filter or disposable facepiece.
- PAPR (Powered Air-Purifying Respirator) – inorganic acid gas filter with any head covering or facepiece.
- Half facepiece air-line respirator – negative pressure demand.

For emergency situations or where the airborne concentration is unknown a supplied air respirator should be worn. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices. Consult your safety equipment supplier for advice when selecting appropriate respiratory protection.

**Eye protection:** Safety glasses with side shields or chemical safety goggles should be worn.

**Hand protection:** Suitable protective gloves (e.g. PVC or rubber) should be worn.

**Body protection:** Suitable protective clothing should be worn e.g. long-sleeved shirt and pants, overalls, etc.

**Exposure limits:** The following NOHSC (National Occupational Health & Safety Commission) exposure limits apply:

Refer to NOHSC publication “Exposure Standards for Atmospheric Contaminants in the Occupational Environment” for further information on exposure standards.

**Engineering controls:** Ensure sufficient ventilation to maintain airborne concentrations below exposure limits and prevent exposure to vapours mists and fumes.

---

PRODUCT NAME	:	URIC ACID REMOVAL POWDER
VERSION	:	1.1
REVISION DATE	:	01.09.12

---

# Material Safety Data Sheet

---

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off White granule powder
Odour	Slightly acidic odour
pH	1in solution
Vapour pressure	Not available
Vapour density	Not available
Boiling point	Not available
Melting point	Not available
Solubility	Miscible in water
Specific gravity	12.15
Flash point	Not applicable
Flammability limits – lower	Not applicable
– upper	Not applicable
Ignition temperature	Not applicable

---

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Normally stable.

**Conditions to avoid:** High temperatures and heat.

**Incompatible materials:** Strong oxidizers, acids, bases, metals, amines, carbides, hydrides, fluorine, alkali metals,  $\text{KmnO}_4$ , strong bases, salts of oxyhanogenic acids, concentrated sulphuric acid, semimetallic hydrogen compounds, semimetallic oxides, aldehydes, sulfides, vinylmethyl ether, lithium silicide.

**Hazardous decomposition:** Thermal decomposition will result in the release of toxic/irritating fumes including hydrogen chloride and flammable hydrogen gas.

**Hazardous reactions:** May react violently with the incompatible materials listed above.

---

## 11. TOXICOLOGICAL INFORMATION

### Toxicology data:

For Sulfamic Acid in it's powder form:

LC50 (Rat, inhalation) = 3124 ppm/1H.

LD50 (Rabbit, oral) = 900 mg/kg.

### Acute health hazards

**Ingestion:** Ingestion will cause chemical burns to the mouth, throat and gastro-intestinal tract.

**Eye contact:** Eye contact may cause severe irritation and possible corneal damage.

**Inhalation:** Inhalation of high vapour concentrations may cause severe irritation and possible chemical burns to the respiratory system.

**Skin contact:** Skin contact will cause severe irritation and possible chemical burns with resultant tissue destruction.

---

PRODUCT NAME	:	URIC ACID REMOVAL POWDER
VERSION	:	1.1
REVISION DATE	:	01.09.12

---

# Material Safety Data Sheet

---

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

---

## Chronic health hazards

Chronic or prolonged exposure to hydrochloric acid may be associated with changes in pulmonary function (i.e. breathing difficulties), chronic bronchitis, dermatitis, decay and erosion of dental enamel, bleeding of nose and gums, nasal and oral mucosal ulceration, conjunctivitis, and overt upper respiratory tract abnormalities. Symptoms may be delayed 1 or 2 days.

---

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** For concentrated sulphamic acid:

282 ppm/96 hr/mosquito fish/TL<sup>m</sup>/fresh water.  
100-330 ppm/48 hr/shrimp/LC<sup>50</sup>/salt water.

**Persistence and degradability:** Low potential for bio-accumulation.

**Mobility:** When released into the soil, this material may leach into groundwater.

**Bio-accumulation:** Not available

**Other information:** Toxic effect on fish and plankton. Do not allow product to enter waters, wastewater or soil.

---

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods and containers:** Dispose of product and empty containers according to relevant local, state and federal government regulations.

**Special precautions for landfill or incineration:** Normally suitable for disposal at approved land waste site. Disposal of this product to landfill can cause contamination of groundwater. Incineration will lead to the formation of highly toxic and irritating hydrogen chloride fumes and flammable hydrogen gas.

**Other information:** It is the responsibility of the generator of the waste to ensure proper waste classification, transportation and disposal. Classify waste under applicable state and local regulations. The information contained in this document applies to the material as manufactured. Processing, use or contamination may make the information inappropriate, inaccurate or incomplete.

---

## 14. TRANSPORT INFORMATION

Classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

<b>UN Number</b>	11759
<b>UN Proper Shipping Name</b>	CORROSIVE LSOLIDS N.O.S.
<b>Class and subsidiary risk</b>	8
<b>Packing Group</b>	II
<b>Emergency Guide</b>	AS1678.8A1
<b>Hazchem Code</b>	1T

---

PRODUCT NAME	:	URIC ACID REMOVAL POWDER
VERSION	:	1.1
REVISION DATE	:	01.09.12

---

# Material Safety Data Sheet

---

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

---

## 15. REGULATORY INFORMATION

Poisons Schedule: 5

AICS status: All ingredients are listed on the Australian Inventory of Chemical Substances (AICS).

---

## 16. OTHER INFORMATION

Preparation date: 01.09.2012

.

### References

- Standard for the Uniform Scheduling of Drugs and Poisons No. 18 – National Drugs and Poisons Schedule Committee.
- 3C Chemical Laboratories – MSDS for De Scaler (Date of Issue: March 2003).
- Merck Pty. Ltd. – MSDS for Hydrochloric Acid sp.gr. 1.18 AnalaR (Date of Issue: January 2002).
- Hazardous Substances Data Bank – National Library of Medicine.
- Australian Dangerous Goods Code 6th Edition – National Road Transport Commission.
- Dangerous Goods – Initial Emergency Response Guide –Standards Australia/New Zealand.
- 3M Australia – Respirator Selection Handbook 2003.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

...End of MSDS...

Prepared by SGS Environmental Services

This MSDS always remains the property of 3C Chemicals Pty Ltd

---

PRODUCT NAME	:	URIC ACID REMOVAL POWDER
VERSION	:	1.1
REVISION DATE	:	01.09.12

---