



# Yara Nipro Pty Ltd

## Material Safety Data Sheet

PRODUCT NAME **U-PHURIC**

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** YARA NIPRO PTY LTD  
**Address** 1 Park Road, Milton, QLD, AUSTRALIA, 4064  
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**Fax** (07) 3369 3822  
**Emergency** (07) 3369 3522  
**Web Site** <http://www.yaranipro.com.au/>  
**Synonym(s)** NIPRO U-PHURIC • UPHURIC  
**Use(s)** AGRICULTURAL APPLICATIONS • WATER TREATMENT  
**MSDS Date** 25 July 2008

### 2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

#### RISK PHRASES

R35 Causes severe burns.

#### SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S30 Never add water to this product.

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

<b>UN No.</b>	1760	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	II	<b>Hazchem Code</b>	2X	<b>EPG</b>	8A1

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
SULPHURIC ACID	H <sub>2</sub> -S-O <sub>4</sub>	7664-93-9	30-60%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	remainder

### 4. FIRST AID MEASURES

**Eye** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. To protect rescuer, use a Full-face Type B (Inorganic and acid gas) respirator or an Air-line respirator. Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.

**Ingestion** For advice, contact a Poisons Information Centre or a doctor (at once). If swallowed, do not induce vomiting.

**Advice to Doctor** Treat symptomatically

**First Aid Facilities** Eye wash facilities and safety shower should be available. Eye wash facilities and safety shower should be available.

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## 5. FIRE FIGHTING MEASURES

<b>Flammability</b>	Non flammable. May evolve flammable hydrogen gas upon contact with metals. May evolve toxic sulphur oxides when heated to decomposition.
<b>Fire and Explosion</b>	Non flammable. Evacuate area and contact emergency services. Toxic gases (sulphur oxides) may be evolved when heated in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>Extinguishing</b>	Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
<b>Hazchem Code</b>	2X

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spillage</b>	For liquid spills: contact emergency services. Clear area of unprotected personnel. Ventilate area where possible. Wear PVC gloves, a Full-face Type B (Inorganic and acid gas) respirator or Air-line respirator, full-length PVC coveralls and boots. Cover with sodium bicarbonate or 50-50 mixture of sodium carbonate & calcium hydroxide. Collect for complete neutralisation and appropriate disposal.
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## 7. STORAGE AND HANDLING

<b>Storage</b>	Store in secured, cool, dry, well ventilated area, removed from oxidising agents (eg. hypochlorites), alkalis, most metals, heat sources and foodstuffs. Ensure containers are adequately labelled and protected from physical damage. Check regularly for leaks or spills. Large storage areas should have appropriate fire prevention and ventilation systems.
<b>Handling</b>	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

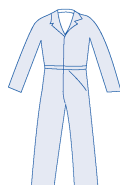
## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Stds	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	Sulphuric acid	NOHSC (AUS)	--	1.0	--	3.0

**Biological Limits** No biological limit allocated.

**Engineering Controls** Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

**PPE** Wear splash-proof goggles, a PVC apron, rubber boots, coveralls, full-length rubber or full-length PVC gloves and a faceshield. When using large quantities or where heavy contamination is likely, wear impervious coveralls. Where an inhalation risk exists, wear a Full-face Type B (Inorganic and Acid gas) or an Air-line respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	CLEAR COLOURLESS LIQUID	<b>Solubility (water)</b>	SOLUBLE
<b>Odour</b>	ODOURLESS	<b>Specific Gravity</b>	1.55
<b>pH</b>	< 1	<b>% Volatiles</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	NON FLAMMABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	NOT RELEVANT
<b>Boiling Point</b>	NOT AVAILABLE	<b>Upper Explosion Limit</b>	NOT RELEVANT
<b>Melting Point</b>	NOT AVAILABLE	<b>Lower Explosion Limit</b>	NOT RELEVANT
<b>Evaporation Rate</b>	NOT AVAILABLE	<b>Autoignition Temperature</b>	NOT AVAILABLE

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## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Potential for exothermic hazard.
<b>Conditions to Avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Material to Avoid</b>	Incompatible with oxidising agents (eg. hypochlorites), alkalis (eg. sodium hydroxide) and some metals (evolving flammable/ potentially explosive hydrogen gas).
<b>Decomposition</b>	May evolve toxic sulphur oxides when heated to decomposition.
<b>Hazardous Reactions</b>	Polymerization is not expected to occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Health Hazard Summary</b>	Highly corrosive. Use safe work practices to avoid eye or skin contact and vapour or spray mist generation - inhalation. Exposure may result in severe skin, eye and respiratory burns with permanent lung and tissue damage. If diluted, the risk of adverse health effects are reduced.
<b>Eye</b>	Highly corrosive - severe irritant. Contact may result in irritation, lacrimation, pain, redness, conjunctivitis and corneal burns with possible permanent damage.
<b>Inhalation</b>	Highly corrosive - severe irritant. Over exposure may result in mucous membrane irritation, coughing, bronchitis, ulceration, bloody nose, lung tissue damage, chemical pneumonitis, pulmonary oedema and death.
<b>Skin</b>	Corrosive - severe irritant. Contact may result in irritation, redness, itching, pain, rash, dermatitis and burns. Effects may be delayed.
<b>Ingestion</b>	Highly corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, abdominal pain and diarrhoea. Ingestion of large quantities may result in ulceration, unconsciousness, convulsions and death.
<b>Toxicity Data</b>	SULPHURIC ACID (7664-93-9) LC50 (Inhalation): 18 mg/m <sup>3</sup> (guinea pig) LD50 (Ingestion): 2140 mg/kg (rat)

## 12. ECOLOGICAL INFORMATION

<b>Environment</b>	Sulphuric acid is miscible with water and its dilution will increase the velocity of downward movement in the soil where it may dissolve the soil material. Sulphuric acid is harmful to aquatic life in very low concentrations. May cause corrosion and deterioration of many common materials found in the environment (eg steel, limestone).
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## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	Wearing the protective equipment detailed above, neutralise to pH 6-8 by SLOW addition to a saturated sodium bicarbonate solution or similar basic solution. Dilute with excess water and flush to drain. Waste disposal should only be undertaken in a well ventilated area.
<b>Legislation</b>	Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION



### CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

<b>Shipping Name</b>	CORROSIVE LIQUID, N.O.S.			
<b>UN No.</b>	1760	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b> None Allocated
<b>Pkg Group</b>	II	<b>Hazchem Code</b>	2X	<b>EPG</b> 8A1
<b>IATA</b>				
<b>Shipping Name</b>	CORROSIVE LIQUID, N.O.S.			
<b>UN No.</b>	1760	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b> None Allocated
<b>Pkg Group</b>	II			

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<b>IMDG</b>				
<b>Shipping Name</b>	CORROSIVE LIQUID, N.O.S.			
<b>UN No.</b>	1760	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b> None Allocated
<b>Pkg Group</b>	II			

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**15. REGULATORY INFORMATION**

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<b>Poison Schedule</b>	Classified as a Schedule 6 (S6) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
<b>AICS</b>	All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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**16. OTHER INFORMATION**

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**Additional Information** ACIDS: When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

## ABBREVIATIONS:

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EINECS - European INventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m3 - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

## HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

## PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Report Status** This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

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PRODUCT NAME **U-PHURIC**

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**MSDS Date:** 25 July 2008

**End of Report**

CHEM ALERT