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Infosafe No™ 3CHC8 Issue Date : August 2021 RE-ISSUED by ACR

Product Name THORIUM STANDARD 10,000 mg/L

Classified as hazardous

1. Identification

GHS Product

THORIUM STANDARD 10,000 mg/L

Identifier

Telephone/Fax

AUSTRALIAN CHEMICAL REAGENTS (ACR) (ABN 19 008 264 211) **Company Name**

38 - 50 Bedford Street Gillman Address

S.A. 5013 Australia Tel: (08) 8440 2000 Fax: (08) 8440 2001

Emergency phone

number

Other Names

Number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

Recommended use of Laboratory reagent.

the chemical and restrictions on use

Product Code Name

THORIUM STANDARD 10,000 mg/L in nitric

acid

EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Other Information

Business hours: 8:30am to 5:00pm, Monday to Friday.

Australian Chemical Reagents (ACR) does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of

2612

the product before use or application is recommended. Any reliance or

purported reliance upon Australian Chemical Reagents (ACR) with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this

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cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of

Eye Damage/Irritation: Category 1 Skin Corrosion/Irritation: Category 1

the substance/mixture

Carcinogenicity: Category 2

Signal Word (s)

DANGER

Hazard Statement (s)

H314 Causes severe skin burns and eye damage.

H351 Suspected of causing cancer.

Health hazard, Corrosion Pictogram (s)





P201 Obtain special instructions before use. **Precautionary**

P202 Do not handle until all safety precautions have been read and understood. statement -

P260 Do not breathe dust/fume/gas/mist/vapours/spray. Prevention

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

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





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position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention.

Precautionary statement - Storage

P405 Store locked up.

Precautionary

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

statement - Disposal

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Nitric acid	7697-37-2	2-5 %
	Thorium oxide (as Th)	1314-20-1	1 %
	Water to make a total	of 7732-18-5	

4. First-aid measures

Ingestion

If inhaled, remove from contaminated area to fresh air immediately. Apply Inhalation

artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear. Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical

advice.

Wash with plenty of soap and water. Remove contaminated clothing and wash Skin

before re-use. If irritation occurs seek medical advice.

Immediately irrigate with copious quantity of water for at least 15 minutes. Eye contact

Eyelids to be held open. Seek medical attention.

Maintain eyewash fountain and safety shower in work area. **First Aid Facilities**

Treat symptomatically based on judgement of doctor and individual reactions of Advice to Doctor

the patient.

For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; Other Information

New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion **Products**

Nitrogen oxides can be released in case of fire.

Specific Methods

Use extinguishing media most appropriate for the surrounding fire. No

limitations to the type of extinguishing media.

Small fire: Use dry chemical, CO2, water spray or foam. Large fire: Use water spray, fog or foam.

If safe to do so, move undamaged containers from the fire area. Cool

containers with flooding quantities of water until well after the fire is out. Product does not burn. Runoff may pollute waterways. Fire may produce

Specific hazards arising from the

chemical

Precautions in

irritating, poisonous and/or corrosive fumes.

Hazchem Code

connection with Fire

Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

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

Clean-up Methods -**Small Spillages**

Dilute with water and mop up, or absorb with an inert dry material and place

in an appropriate waste disposal container.

May be neutralised with sodium carbonate or limestone.





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7. Handling and storage

Precautions for Safe Handling Avoid breathing vapour or mist. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Avoid ingestion. If you feel unwell,

seek medical attention and show the label when possible.

Conditions for safe storage, including any incompatibilities Keep in a tightly closed container, stored in a cool, dry, environment out of direct sunlight, away from heat. Store away from foods and other chemicals.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		•	rwa -			
•		mg/m3	ppm	mg/m3	ppm	Footnote		
	Nitric acid	10	4	5.2	2			
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 Nitric acid 4ppm (Safe Work Australia) of 10 mg/m3. The corresponding STEL (Short Term Exposure Limit) is 2 ppm or 5.2 mg/m3. The STEL 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	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.							
Respiratory Protection	Not normally required.							
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side ship protection as appropriate. Must comply with Australian Standards AS 1337 be selected and used in accordance with AS 1336.							
Hand Protection	ear gloves of impervious material conforming to AS/NZS 2161: Occupational rotective gloves - Selection, use and maintenance. Final choice of ppropriate glove type will vary according to individual circumstances. This an include methods of handling, and engineering controls as determined by ppropriate risk assessments. Avoid skin contact when removing gloves from ands, do not touch the gloves outer surface. Dispose of gloves as hazardous aste.							
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, Australian/New Zealand 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	No specific measures							
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.							

9. Physical and chemical properties

Form Liquid

Appearance Clear liquid.





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Odourless to a faint pungent odour. Odour

Soluble. Solubility in Water

Flammability Non flammable.

10. Stability and reactivity

Chemical Stability Stable under ordinary conditions of use and storage.

This is an acidic solution that will corrode metals. Will produce toxic gases **Conditions to Avoid**

on contact with cyanides, sulphides etc. Chlorine, organic materials, strong

alkali.

Incompatible

Strong alkalies, powdered metals.

Materials

Oxides of nitrogen. Hazardous

Decomposition Products

Will not occur. Hazardous

Polymerization

11. Toxicological Information

May burn or irritate gastric tissue. May be harmful if swallowed. Ingestion

Inhalation Inhalation of vapours may irritate nose and throat. Inhalation of mists into

lungs can cause pneumonitis.

Skin contact may cause redness, itchiness and irrritation. Skin

May cause severe skin burns.

Eye contact may cause stinging, blurring and tearing. Corrosive to eyes; Eye

contact can cause corneal burns.

Respiratory

sensitisation

Not classified based on available information.

Skin Sensitisation Germ cell

Not classified based on available information. Not classified based on available information.

mutagenicity

Carcinogenicity

Thorium oxide is suspected to be human carcinogen. This solution contains depleted radioactive thorium oxide at 1% concentration. Thorium oxide is weakly radioactive and emits alpha particles which are harmful to the body. For the energy range of alpha particles usually encountered, a fraction of a millimetre of any ordinary material is sufficient for absorbance. Thin

rubber, acrylic, stout paper or cardboard will suffice.

Carcinogenicity: Category 2 H351 Suspected of causing cancer.

Not classified based on available information. Reproductive

Toxicity

STOT-single

Not classified based on available information. exposure

STOT-repeated

exposure

Not classified based on available information.

Chronic Effects

Repeated or prolonged skin contact may cause severe irritation or dermatitis.

Eye Damage/Irritation: Category 1 Serious eye

H314 Causes severe skin burns and eye damage. damage/irritation

Skin Corrosion/Irritation: Category 1 Skin

H314 Causes severe skin burns and eye damage. corrosion/irritation LD Intraarterial, Human: Thorium oxide 490 mg/kg. Other Information

12. Ecological information

No ecological problems are to be expected when the product is handled and used **Ecological** Information with due care and attention.





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13. Disposal considerations

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

14. Transport information

Transport Information Dangerous Goods of Class 8 Corrosives are incompatible 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 alkalies and

Class 7.

U.N. Number

3264

UN proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Transport hazard

class(es)

2X

Hazchem Code

Packing Group IERG Number

ΙI 37

15. Regulatory information

Regulatory Information All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and

restricted hazardous chemicals.

Poisons Schedule

16. Other Information

Literature References

'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'.

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency

Response Guide', Standards Australia/Standards New Zealand.

Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe

Work Hazardous Substances'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:

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