AUSTRALIAN CHEMICAL REAGENTS

SAFETY DATA SHEET

Date Prepared: March 2018
Version No: 5

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Holmium perchlorate solution
Product Code:	1596
Other Names:	Nil
Uses:	Analytical Reagent
Supplier:	Australian Chemical Reagents 38-50 Bedford Street Gillman SA 5013
Contacts:	Telephone: 61 08 84402000 Fax: 61 08 84402001
Emergency Phone:	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

1. HAZARDS INFORMATION

GHS Classification

Oxidizing Liquids: Category 2
Acute Toxicity - Oral: Category 4
Skin Corrosion/Irritation: Category 1B

Signal Word(s) DANGER

Pictogram(s)

Hazard Statement(s)

H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary Statement(s)
Preventative

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P220 Keep/Store away from clothing/.../combustible materials.
P221 Take any precaution to avoid mixing with combustibles ...
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
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.
P370+P378 In case of fire: Use .flooding quantities of water. for extinction.

Storage P405 Store locked up.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Holmium perchlorate	-	12%
Perchloric acid	[7601-90-3]	14%

4. FIRST AID MEASURES

Safety showers and eye wash facilities should be provided.
Swallowed :
If conscious wash out mouth with water. Seek medical advice. Show this SDS to medical practitioner.
Eye :
Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this SDS to medical practitioner.
Skin :
Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice. Show this SDS to medical practitioner. Launder clothing before reuse.
Inhaled :
Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this SDS to a doctor.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
Small fire: USE FLOODING QUANTITIES OF WATER. Do not use dry chemicals, CO2 or foam.
Large fire: Flood fire area with water from a protected position. Cool containers with flooding quantities of water until well after fire is out - If impossible, withdraw from area and let fire burn. Dam fire control water for later disposal.

Hazards From Combustion Products:
Decomposition products include oxides of holmium.
Precautions For Fire Fighters and Special Protective Equipment:
Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with full face-piece, operated in positive pressure mode when fighting fires.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:
Prevent from entering waterways. Restrict access to area. Remove chemicals that can react with the spilled material.

Methods and materials for containment and clean up:
Restrict access to area. Wear protective clothing. Use inert material such as sand or earth to contain spill or leak. Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations. Neutralise residues with sodium bicarbonate.

7. HANDLING AND STORAGE

Precautions for Safe Handling:
Do not get in eyes, on skin, on clothing. Avoid all personal exposure.
Conditions for Safe Storage:
Store sealed in original container in a cool well ventilated situation away from foods and other chemicals Do not store in direct sunlight. Strong oxidiser. Do not mix with alkalis, metals, organic materials. Observe good hygiene and housekeeping practices.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:
Safe Work Australia – None known

Biological Limit Values: No data available.

Engineering Controls:
Do not breathe vapours. Maintain atmospheric concentrations well below exposure standards with extraction ventilation.

Personal Protective Equipment (PPE):
The use of nitrile rubber or neoprene gloves complying with AS 2161 and the use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Clear pink liquid
Odour:	Nil
pH:	Not applicable
Boiling Point (^{0}C) :	Not known
Freezing/melting Point:	Not known
Vapour Pressure (mm of Hg @ 25^{0}C) :	Not known
Vapour Density:	Not known
Specific Gravity :	1.1
Flash Point (^{0}C) :	Not flammable
Flammability Limits (%) :	Not applicable
Solubility in Water (g/L) :	miscible

10. STABILITY AND REACTIVITY

Chemical stability:
Stable.
Conditions to avoid:
Heat.
Incompatible materials:
Alkalies, hypochlorites, cyanides, sulphides, metals
Hazardous decomposition products:
Refer to section 5 (Fire Fighting Measures).
Hazardous reactions:
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Effects
Swallowed : May cause burns to tissues.
Eye : May result in permanent damage to eyes. Will cause burns.
Skin : May burn or irritate skin tissue.
Inhaled : May irritate respiratory system.
Chronic Effects: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:
No data available.
Persistence and degradability:
No data available.
Mobility:
No data available.

13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material and container. Observe all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

UN Number: 3093
UN Proper Shipping Name: CORROSIVE LIQUID, OXIDIZING N.O.S.
Class and subsidiary risk(s): 8, 5.1
Packing Group: 11
Hazchem Code: 2W
Special precautions for user : Nil

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):
5

16. OTHER INFORMATION

Disclaimer:
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END of SDS