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Disclaimer:

CHESSER CHEMICALS Pty Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

Product: **ACID DESCALER**

HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals

SIGNAL WORD: DANGER



Health hazards

H314

Causes severe skin burns and eye damage.

Other Hazards

H290

May be corrosive to metals



Emergency Response No: **CHEMWATCH** 1800 951 288

RECOMMENDED PPE



**1 IDENTIFICATION****IDENTIFICATION**

Product Code: ADS
 Product Name: ACID DESCALER
 Other Names: Not applicable
 Product Use: Acid Cleaner
 Restrictions on use: Use according to Directions; avoid contact with acids and organic matter

COMPANY DETAILS

Company: CHESSER CHEMICALS Pty Ltd
 ABN Number: 67 008 262 039
 Address: 124 Days Road
 FERRYDEN PARK SA 5010
 Telephone Number: (08) 8406 0000
 Facsimile Number: (08) 8406 0099
 Emergency Telephone Number: CHEMWATCH 1800 951 288

Other Information: This information summarises our best knowledge on the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

2 HAZARD IDENTIFICATION

HAZARDOUS according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals.

Classification of the substance or mixture:

Corrosive to Metals - Category 1
 Skin Corrosion/irritation - Category 1
 Eye Damage/irritation - Category 1

SIGNALWORD: DANGER



Corrosion

Hazard Statements**Physical hazards**

H290 May be corrosive to metals.

Health hazards

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage

Environmental hazards

H402 Harmful to aquatic life

Precautionary statements**General precautionary statements****Prevention precautionary statements**

P234 Keep only in original container.
 P264 Wash hands thoroughly after handling.
 P260 Do not breathe mists or sprays
 P280 Wear protective gloves, clothing and eye protection.
 P390 Absorb spillage to prevent material damage.

Response precautionary statements

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



P303 P361 P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 Wash contaminated clothing before re-use.
 P304 P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 Immediately call a POISON CENTRE or doctor/physician.
 P321 Specific treatment (see First Aid Measures on Safety Data Sheet).
 P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage precautionary statements

P405 Store locked up.
 P406 Store in corrosive resistant container with a resistant inner liner.

Disposal precautionary statements

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Poisons Schedule (SUSMP): S6 Poison.

3 COMPOSITION**Ingredients**

Chemical Entity	CAS Number	Proportion	Risk Phrases
Phosphoric acid	[7664-38-2]	30 – 60%	H290 H314 H318
Ingredients determined to be Non-Hazardous		Balance	

4 FIRST AID MEASURES

Ingestion: If swallowed do NOT induce vomiting. Immediately wash out mouth with water. Seek urgent medical attention.
Eye: If in eyes, hold eye lids apart and flush eye continuously with running water. Continue flushing until advised to stop by the Poisons Information centre or a doctor, or for at least 15 minutes. Seek urgent medical attention.
Skin: If skin contact occurs, remove contaminated clothing and flush skin and hair with running water. Do not re-use contaminated clothing until washed. Seek medical attention.
Inhaled: Remove from contaminated area to fresh air. If problem persists seek urgent medical attention
First Aid Facilities Eye wash and safety shower
Advice to Doctor Treat symptomatically, Can cause severe eye damage.

5 FIRE FIGHTING MEASURES

Fire Extinguishing Media: Use appropriate extinguishing media to suit surrounding area
Hazards from Combustion: Material does not burn
Precaution for Fire Fighters: Wear chemical splash suit and SCBA
Corrosive liquid. Contact with metals may evolve flammable hydrogen gas
Hazchem 2R

6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Keep unauthorised people away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing
Clean Up Spills will be slippery so treat promptly. For minor spills mop up and rinse with water. For larger spills absorb material on mineral absorbent material or absorbent pads. Collect and put into plastic bags and dispose of through waste disposal contractor. Rinse area with water.

7 HANDLING AND STORAGE

Handling Wear appropriate protective clothing to prevent skin and eye contact. Use in well ventilated area. Keep containers closed when not in use. Maintain a high standard of personal hygiene. Wash hands immediately after using product
Storage Corrosive product. Store in cool, dry, well ventilated place out of direct sunlight. Store in closed containers. Store away from incompatible materials such as acids, aluminium and zinc. Ensure storage area is secure

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Standards Exposure standards for phosphoric acid [NOHSC: 1008(2004)] are: TWA 1mg/ STEL 3mg/m³



Engineering Controls Ensure ventilation is adequate to maintain air concentrations below exposure standards

Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.



CHEMICAL GOGGLES
IMPERVIOUS GLOVES

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

If risk of inhalation exists, wear suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716

If used in heated tanks in confined area with Hook & Gambrel cleaning, ensure adequate ventilation or wear full face piece respirator with suitable filter for acid gases and vapours.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid	
Formula	Not applicable.	
Odour	Odourless	
Vapour Pressure	Not applicable.	
Vapour Density	Not determined	
Boiling Point	Not applicable.	
Melting Point	Not applicable.	
Solubility in Water	Soluble at use dilutions	
Specific Gravity	1.35 (Water = 1)	
Flash Point	Not applicable.	
pH	1.10 (1% Solution (25°C))	
Lower Explosion Limit	Not applicable.	
Upper Explosion Limit	Not applicable.	
Ignition Temperature	Not applicable.	
Specific Heat Value	Not applicable.	
Particle Size	Not applicable.	
Volatile Organic Compounds (VOC) Content		Not applicable.
Evaporation Rate	Not applicable.	
Viscosity	Not applicable.	
Percent Volatile	0%	
Octanol/Water partition coefficient	Not applicable.	
Saturated Vapour Concentration	Not applicable.	
Additional Characteristics	Not applicable.	
Flame Propagation/Burning Rate of Solid Materials		Not applicable.
Properties of Materials That May Initiate or Contribute to Fire Intensity		Not applicable.
Potential for Dust Explosion	Not applicable.	
Reactions that Release Flammable Gases	Contact with reactive metals may evolve highly flammable hydrogen gas	
Fast of Intensely Burning Characteristics	Not applicable.	
Non-flammables That Could Contribute Unusual Hazards to a Fire		Not applicable.
Release of Invisible Flammable Vapours and Gases		Not applicable.
Decomposition Temperature	Not determined	

Additional Information 10 STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage.
Hazardous Decomposition Products:	Fire/decomposition may produce irritating, corrosive and/or toxic gases, including oxides of Phosphorus
Hazardous Polymerization:	Will not occur.
Incompatibilities:	Incompatible/reactive with strong oxidising agents, reducing agents, sulphides, phosphides, cyanides, acetylides, fluorides, silicides, carbides, strong caustic material, alloys, glass, leather, natural rubber, fluorine gas, arsenic trioxide.
Conditions to Avoid:	Avoid formation of mists/aerosols. Avoid overheating.

**11 TOXICOLOGICAL INFORMATION**

Toxicity Data	Oral LD ₅₀ Rat :	1530mg/Kg (50% solution)
	Dermal LD ₅₀ Rabbit :	2740mg/Kg (50% solution)
	Inhalation LC ₅₀ Rat :	> 0.85mg/L (anhydrous substance)
	Eye Irritation Test :	Severe Irritations (Rabbit)
	Skin Irritation Test:	Severe Irritations (Rabbit)
Health Effects - Acute		
Swallowed	Corrosive material, Causes burns. Ingestion of this product may cause nausea, vomiting, diarrhoea, corrosion, burns to the mouth and oesophagus with strong pain (Risk of perforation!), abdominal pain, chest pain, and shortness of breath, seizures and death may result.	
Eye	Corrosive material. Causes burns, tissue destruction, and permanent damage to the cornea with a risk of blindness.	
Skin	Corrosive material, Causes burns. Product may produce skin irritation.	
Inhaled	Corrosive Material, Causes burns. Mist may cause irritation to nose, throat and lungs, shortness of breath, and fluid	

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT - single exposure: Product mists or aerosols may cause respiratory irritation, burning sensation, cough, shortness of breath, sore throat. Prolonged exposures can cause necrosis of nasal passages and oedema of lungs.

STOT - repeated exposure: No information available.

Aspiration toxicity: No information available.

Carcinogen Category None

12 ECOLOGICAL INFORMATION

Ecotoxicity: No information found. Avoid contaminating waterways.

13 DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority. Dispose of material through licensed waste contractor. Assure conformity with all applicable regulations.

14 TRANSPORT INFORMATION**Road and Rail Transport**

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN No:	1805
Transport Hazard Class:	8 Corrosive
Packing Group:	III
Proper Shipping Name:	PHOSPHORIC ACID, SOLUTION
Hazchem or Emergency Action Code:	2R

**Marine Transport**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No:	1805
Transport Hazard Class:	8 Corrosive
Packing Group:	III
Proper Shipping Name or Technical Name:	PHOSPHORIC ACID, SOLUTION
IMDG EMS Fire:	F-A
IMDG EMS Spill:	S-B

**Air Transport**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No:	1805
Transport Hazard Class:	8 Corrosive
Packing Group:	III
Proper Shipping Name or Technical Name:	PHOSPHORIC ACID, SOLUTION



**15 REGULATORY INFORMATION**

Poisons Schedule	S6
EPG	8A1
AICS Name	All the constituents of this material are listed on Inventory.

16 OTHER INFORMATION

Literature References No data available.

Sources for Data No data available.

Legend to Abbreviations and Acronyms

<	less than
>	greater than
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
cm²	square centimetres
CO₂	Carbon Dioxide
COD	Chemical Oxygen Demand
deg C (°C)	degrees Celsius
ERMA	Environmental Risk Management Authority
G	gram
g/cm³	grams per cubic centimetre
g/l	grams per litre
LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals
Ltr	Litre
m³	cubic metre
mbar	millibar
mg	milligram
mg/24H	milligrams per 24 hours
mg/kg	milligrams per kilogram
mg/m³	milligrams per cubic metre
Misc	miscible
Miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	millimetre
mPa.s	milli Pascal per second

HSNO	Hazardous Substance and New Organism
IDLH	Immediately Dangerous to Life and Health
Immiscible	liquids are insoluble in each other
Kg	kilogram
kg/m³	kilograms per cubic metre
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
N/A	Not Applicable
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
ppb	parts per billion
ppm	parts per million
ppm/2h	parts per million per 2 hours
ppm/6h	parts per million per 6 hours
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
tne	tonne
TWA	Time Weighted Average
ug/24H	micrograms per 24 hours
UN	United Nations (number)
Wt	weight

Date Prepared:

Thursday 29th February 2024 Version: 1.2

Supersedes: Tuesday 7th May 2019

Update Chemwatch Phone Number



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