



CHESSER CHEMICALS Pty Ltd
124 Days Rd FERRYDEN PARK
South Australia 5010 Australia
T: +61 8 8406 0000
F: +61 8 8406 0099
E: reception@chesserchemicals.com.au
ABN Number: 67 008 262 039

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: PHOSBRITE

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

SIGNAL WORD: DANGER



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

RECOMMENDED PPE



Physical hazards

H290

May be corrosive to Metals

Health hazards

H314

Causes severe skin burns and eye damage.

**1 IDENTIFICATION****IDENTIFICATION**

Product Code: PHB
 Product Name: PHOSBRITE
 Other Names: Not applicable
 Product Use: Acid Hook & Gambrel Cleaner; Food Industry Acid Cleaner.
 Restrictions on use: Use according to Directions; avoid contact with alkalis and strong caustic and oxidising agents. Wear appropriate PPE and read this SDS before using.

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.

Environmental hazards

H402 Harmful to aquatic life

Other Hazards**Precautionary statements****General precautionary statements****Prevention precautionary statements**

P234 Keep only in original container.
 P260 Do not breathe fume/gas/mist/vapours/spray.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.
P390	Absorb spillage to prevent material damage.

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.
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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
Surfactants		1 - 10%	
Water	[7732-18-5]	30 - 40%	

4 FIRST AID MEASURES

For advice, contact a Poisons Information Centre phone (Australia 131 126) or a doctor.

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

Skin Contact:

If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.

Eye Contact:

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

Ingestion:

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Indication of immediate medical attention and special treatment needed:

Treat symptomatically. Can cause corneal burns.

5 FIRE FIGHTING MEASURES**Extinguishing Media**

In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions. Do NOT use chemical extinguishers or foams, do NOT attempt to smother the fire with steam or sand.

Hazards from Combustion Products

Non-combustible liquid. Will not burn, or support combustion. Incompatible with oxidising agents, reactive metals zinc and bare steel, strong reducing agents, fluorine, bases, metals, metal oxides, metal alloys, strong bases, sulfur trioxide, phosphorous pentoxide, and sources of ignition. Fumes produced when heated to decomposition may include corrosive phosphorous oxides. This product transforms to pyrophosphoric acid at 200°C.

**Special Protective Precautions and Equipment for Fire Fighters**

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources.

Flammability Conditions Product is a non-flammable liquid.

Hazchem Code 2R

6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Personnel involved in the clean up should wear full protective clothing. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Authority.

Clean Up Spills will be slippery so treat promptly. For minor spills mop up and rinse with water. For larger spills neutralise spilled product with lime or soda. Soak up using absorbent material such as sand or soil. When saturated, collect material and transfer to a suitable, labelled, dry, sealable containers and hold for safe disposal.

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 strong acids, strong alkalis, oxidising agents, aluminium and zinc. Ensure storage area is secure

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Standards None listed for product. 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 dependant 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	Green Clear foaming 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	1.30 (Water = 1)
Flash Point	Not applicable.
pH	1.10 (1% Solution (25°C))
Lower Explosion Limit	Not applicable.
Upper Explosion Limit	Not applicable.



SAFETY DATA SHEET

CHESSER CHEMICALS

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:	Will emit Chlorine Gas when mixed with chlorinated products
Hazardous Polymerization:	Will not occur.
Incompatibilities:	Strong alkalis, oxidising agents, metals
Conditions to Avoid:	Avoid excessive heat, direct sunlight. Reacts violently with caustic and evolves chlorine gas if mixed with chlorine bleach. Attacks aluminium, tin, zinc and concrete.

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 chemical pneumonitis.

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
Hazchem or Emergency Action Code:	2R





SAFETY DATA SHEET

CHESSER CHEMICALS

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
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.

15 REGULATORY INFORMATION

Poisons Schedule S6
EPG 8A1
AICS Name All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

Classification:

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

Classification of the substance or mixture:

Corrosive to Metals - Category 1
Skin Corrosion - Sub-category 1B
Eye Damage - Category 1

Hazard Statement(s):

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

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
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
N/A Not Applicable
NOHSC National Occupational Health and Safety Commission

g/l grams per litre
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.
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



CHESSER CHEMICALS

SAFETY DATA SHEET

Page 7 of 7
Product: **PHOSBRITE**
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CHESSER CHEMICALS Pty Ltd
124 Days Road
FERRYDEN PARK SA 5010

Telephone: (08) 8406 0000
Facsimile: (08) 8406 0099
e-Mail: reception@chesserchemicals.com.au