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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: PHOSBRITE

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

**SIGNAL WORD: DANGER**



 **Emergency Response No: 1800 039 008**

**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 039 008

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 CENTER 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]	> 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/m<sup>3</sup>

**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**

<b>Appearance</b>	Green Clear foaming liquid
<b>Formula</b>	Not applicable.
<b>Odour</b>	Odourless
<b>Vapour Pressure</b>	Not applicable.
<b>Vapour Density</b>	Not determined
<b>Boiling Point</b>	Not applicable.
<b>Melting Point</b>	Not applicable.
<b>Solubility in Water</b>	Soluble at use dilutions
<b>Specific Gravity</b>	1.30 (Water = 1)
<b>Flash Point</b>	Not applicable.
<b>pH</b>	1.10 (1% Solution (25°C))
<b>Lower Explosion Limit</b>	Not applicable.
<b>Upper Explosion Limit</b>	Not applicable.



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<b>Ignition Temperature</b>	Not applicable.	
<b>Specific Heat Value</b>	Not applicable.	
<b>Particle Size</b>	Not applicable.	
<b>Volatile Organic Compounds (VOC) Content</b>		Not applicable.
<b>Evaporation Rate</b>	Not applicable.	
<b>Viscosity</b>	Not applicable.	
<b>Percent Volatile</b>	0%	
<b>Octanol/Water partition coefficient</b>	Not applicable.	
<b>Saturated Vapour Concentration</b>	Not applicable.	
<b>Additional Characteristics</b>	Not applicable.	
<b>Flame Propagation/Burning Rate of Solid Materials</b>		Not applicable.
<b>Properties of Materials That May Initiate or Contribute to Fire Intensity</b>		Not applicable.
<b>Potential for Dust Explosion</b>	Not applicable.	
<b>Reactions that Release Flammable Gases</b>		Contact with reactive metals may evolve highly flammable hydrogen gas
<b>Fast of Intensely Burning Characteristics</b>		Not applicable.
<b>Non-flammables That Could Contribute Unusual Hazards to a Fire</b>		Not applicable.
<b>Release of Invisible Flammable Vapours and Gases</b>		Not applicable.
<b>Decomposition Temperature</b>	Not determined	
<b>Additional Information</b>		

## 10 STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of use and storage.
<b>Hazardous Decomposition Products:</b>	Will emit Chlorine Gas when mixed with chlorinated products
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibilities:</b>	Strong alkalis, oxidising agents, metals
<b>Conditions to Avoid:</b>	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

<b>Toxicity Data</b>	Oral LD <sub>50</sub> Rat: 1530mg/Kg (50% solution)
	Dermal LD <sub>50</sub> Rabbit: 2740mg/Kg (50% solution)
	Inhalation LC <sub>50</sub> Rat: > 0.85mg/L (anhydrous substance)
	Eye Irritation Test: Severe Irritations (Rabbit)
	Skin Irritation Test: Severe Irritations (Rabbit)
<b>Health Effects - Acute</b>	
<b>Swallowed</b>	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.
<b>Eye</b>	Corrosive material. Causes burns, tissue destruction, and permanent damage to the cornea with a risk of blindness.
<b>Skin</b>	Corrosive material, Causes burns. Product may produce skin irritation.
<b>Inhaled</b>	Corrosive Material, Causes burns. Mist may cause irritation to nose, throat and lungs, shortness of breath, and fluid

## 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.

<b>UN No:</b>	1805
<b>Transport Hazard Class:</b>	8 Corrosive
<b>Packing Group:</b>	III
<b>Proper Shipping Name:</b>	Phosphoric acid
<b>Hazchem or Emergency Action Code:</b>	2R





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## 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:** II  
**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:** II  
**Proper Shipping Name or Technical Name:** Phosphoric acid.



## 15 REGULATORY INFORMATION

**Poisons Schedule** S6

**EPG** 8A1

**AICS Name** Phosphoric acid solution.

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)  
**cm<sup>2</sup>** square centimetres  
**CO<sub>2</sub>** Carbon Dioxide  
**COD** Chemical Oxygen Demand  
**deg C (°C)** degrees Celsius  
**ERMA** Environmental Risk Management Authority  
**G** gram  
**g/cm<sup>3</sup>** 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  
**m<sup>3</sup>** cubic metre  
**mbar** millibar  
**mg** milligram  
**mg/24H** milligrams per 24 hours  
**mg/kg** milligrams per kilogram  
**mg/m<sup>3</sup>** 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/m<sup>3</sup>** 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



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Product: **PHOSBRITE**  
Issued: January 2020

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Date Prepared:

Tuesday 4<sup>th</sup> January 2020

Version: 2

Supersedes:

Friday 24<sup>th</sup> June 2016

*Remove TQCSI Logo from Header*

*Remove SIGNAL WORD WARNING*

*Remove Exclamation mark ICON*

*Reclassify Skin Corrosion as Category 1*

*Replace*

**HAZARDOUS** according to Safe Work Australia

**NOT a DANGEROUS GOODS** according to the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail

*with*

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

*Alter SIGNAL WORDS from DANGER & WARNING to DANGER*

*Categorise Skin Corrosion Category 1 NOT- Sub-category 1B*



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