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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: **COMBAT**

**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



### Hazards

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

**1 IDENTIFICATION****IDENTIFICATION**

Product Code:	COM
Product Name:	COMBAT
Other Names:	Not applicable
Product Use:	Caustic based Hard Surface Cleaner
Restrictions on use:	Use according to Directions; avoid contact with acids. Use appropriate PPE.

**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 1C
Eye Damage/Irritation	- Category 1

**SIGNALWORD: DANGER**

Corrosion

**Hazard Statements****Physical hazards**

H290	May be corrosive to metals.
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**Health hazards**

H314	Causes severe skin burns and eye damage.
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**Environmental hazards**

H402	Harmful to aquatic life
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**Other Hazards**

Not Listed

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

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

**Response precautionary statements**

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

**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
POTASSIUM HYDROXIDE	[1310-58-3]	1 - 10%	H290 H314 H318
Disodium metasilicate	[10213-79-3]	1 – 10%	H314 H318
Water	[7732-18-5]	> 60%	
Ingredients determined not to be hazardous		Balance	

**4 FIRST AID MEASURES**

<b>Ingestion:</b>	If swallowed do NOT induce vomiting. Immediately wash out mouth with water. Seek urgent medical attention.
<b>Eye:</b>	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.
<b>Skin:</b>	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.
<b>Inhaled:</b>	Remove from contaminated area to fresh air. If problem persists seek urgent medical attention
<b>First Aid Facilities</b>	Eye wash and safety shower
<b>Advice to Doctor</b>	Treat symptomatically, Can cause severe eye damage.

**5 FIRE FIGHTING MEASURES**

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

**6 ACCIDENTAL RELEASE MEASURES**

<b>Emergency Procedures</b>	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
<b>Clean Up</b>	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**

<b>Handling</b>	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
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**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** None listed for product. However exposure standards for Potassium Hydroxide are:  
Potassium Hydroxide TWA: 2mg/m<sup>3</sup> Peak limitation

**Engineering Controls** COMBAT can be used manually or through a foamer. Use in well ventilated area and maintain levels 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 or SAFETY GLASSES  
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

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear colourless foaming liquid.
<b>Odour</b>	Neutral
<b>Boiling Point:</b>	>100°C
<b>Specific Gravity:</b>	1.13
<b>Flash Point:</b>	N/A
<b>Flammability Limits:</b>	N/A
<b>Solubility in Water:</b>	Soluble
<b>Other Properties</b>	
<b>pH (neat)</b>	> 13.0

### 10 STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of use and storage.
<b>Hazardous Decomposition Products:</b>	No special requirements.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibilities:</b>	Acids, aluminium, zinc, brass and painted surfaces.
<b>Conditions to Avoid:</b>	Reacts violently with acids. Attacks aluminium, tin and zinc

### 11 TOXICOLOGICAL INFORMATION

<b>Ingestion</b>	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and bleeding. Can cause chemical burns to the mouth, oesophagus and gastrointestinal tract
<b>Eye</b>	Corrosive to eyes. Will cause severe irritation and chemical burns. Contamination of eyes can result in permanent injury or blindness
<b>Skin</b>	Contact with skin will result in severe irritation. Corrosive to skin – may cause skin burns
<b>Inhalation</b>	Mist generated may cause severe irritation to the mucous membranes and upper respiratory tract
<b>Chronic Effects</b>	Prolonged or repeated exposure to this product will result in skin irritation and possibly result in dermatitis
<b>Toxicological Data</b>	Non available for COMBAT. However for: Potassium hydroxide TWA 2 mg/m <sup>3</sup> Peak Limitation

### 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:** 1719  
**Transport Hazard Class:** 8 Corrosive  
**Contains Potassium hydroxide**  
**Packing Group:** II  
**Proper Shipping Name:** Caustic Alkali Liquid N.O.S.  
**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:** 1719  
**Transport Hazard Class:** 8 Corrosive  
**Contains Potassium hydroxide**  
**Packing Group:** II  
**Proper Shipping Name or Technical Name:** Caustic Alkali Liquid N.O.S.  
**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:** 1719  
**Transport Hazard Class:** 8 Corrosive  
**Contains Potassium hydroxide**  
**Packing Group:** II  
**Proper Shipping Name or Technical Name:** Caustic Alkali Liquid N.O.S.

**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).

**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  
**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  
**m<sup>3</sup>** cubic metre  
**mbar** millibar  
**mg** milligram  
**mg/24H** milligrams per 24 hours  
**mg/kg** milligrams per kilogram

**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.  
**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



# SAFETY DATA SHEET

**CHESSER**CHEMICALS

<b>OECD</b>	Organization for Economic Co-operation and Development	<b>STEL</b>	Short Term Exposure Limit
<b>PEL</b>	Permissible Exposure Limit	<b>TLV</b>	Threshold Limit Value
<b>ppb</b>	parts per billion	<b>tn</b>	tonne
<b>ppm</b>	parts per million	<b>TWA</b>	Time Weighted Average
<b>ppm/2h</b>	parts per million per 2 hours	<b>ug/24H</b>	micrograms per 24 hours
<b>ppm/6h</b>	parts per million per 6 hours	<b>UN</b>	United Nations (number)
<b>RCP</b>	Reciprocal Calculation Procedure	<b>Wt</b>	weight

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