



CHESSER CHEMICALS Pty Ltd
124 Days Rd FERRYDEN PARK
South Australia 5010 Australia
Telephone +61 8 8406 0000
Facsimile +61 8 8406 0099
Email 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: SPIRAL

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



Health hazards

H314

Causes severe skin burns and eye damage.

Other Hazards

P290

AUH031

May be corrosive to metals

Contact with acids liberates toxic gas.

1 IDENTIFICATION

IDENTIFICATION

Product Code: SPI
Product Name: SPIRAL
Other Names: Not applicable
Product Use: Chlorinated automatic machine dishwashing detergent
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.

Environmental hazards

H402 Harmful to aquatic life

Other Hazards

AUH031 Contact with acids liberates toxic gas.

Precautionary statements

General precautionary statements

Prevention precautionary statements

P234 Keep only in original container.
P260 Do not breathe dust/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.



SAFETY DATA SHEET

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
POTASSIUM HYDROXIDE	[1310-53-3]	10 - 30%	H290 H314 H318
SODIUM HYPOCHLORITE	[7681-52-9]	1 – 10%	H314 EUH031 H318
Available Chlorine 1.8 % at Manufacture			
Ingredients determined not to be 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
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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.

Engineering Controls SPIRAL can be used manually but is designed to be automatically dispensed into the wash cycle of the dishwasher. 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
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

Appearance:	Clear, yellow green non foaming liquid with chlorine odour
Boiling Point:	>100°C
Specific Gravity:	1.140
Flash Point:	N/A
Flammability Limits:	N/A
Solubility in Water:	Soluble
Other Properties	
pH (neat)	> 13.0
Available Chlorine	~ 1.8% at time of manufacture

10 STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage.
Hazardous Decomposition Products:	Will emit Chlorine Gas when mixed with acids.
Hazardous Polymerization:	Will not occur.
Incompatibilities:	Acids
Conditions to Avoid:	Reacts violently with acids. Attacks aluminium, tin and zinc

11 TOXICOLOGICAL INFORMATION

Ingestion	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and bleeding. Can cause chemical burns to the mouth, oesophagus and gastrointestinal tract
Eye	Corrosive to eyes. Will cause severe irritation and chemical burns. Contamination of eyes can result in permanent injury or blindness
Skin	Contact with skin will result in severe irritation. Corrosive to skin – may cause skin burns
Inhalation	Mist generated may cause severe irritation to the mucous membranes and upper respiratory tract
Chronic Effects	Prolonged or repeated exposure to this product will result in skin irritation and possibly result in dermatitis
Toxicological Data	Non available for SPIRAL.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	No information found. Avoid contaminating waterways.
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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
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
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
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 Inventory

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 - Category 1
 Eye Damage - Category 1

Hazard Statement(s):

H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 AU031 Contact with acids liberates toxic gas

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

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.
 once, which causes the death of 50% (one half) of a group of test animals
Ltr Litre
m³ cubic metre



SAFETY DATA SHEET

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Product: **SPIRAL**
Issued: February 2024

CHESSER CHEMICALS

mbar	millibar	OECD	Organization for Economic Co-operation and Development
mg	milligram	PEL	Permissible Exposure Limit
mg/24H	milligrams per 24 hours	ppb	parts per billion
mg/kg	milligrams per kilogram	ppm	parts per million
mg/m³	milligrams per cubic metre	ppm/2h	parts per million per 2 hours
Misc	miscible	ppm/6h	parts per million per 6 hours
Miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present	RCP	Reciprocal Calculation Procedure
mm	millimetre	STEL	Short Term Exposure Limit
mPa.s	milli Pascal per second	TLV	Threshold Limit Value
N/A	Not Applicable	tne	tonne
NOHSC	National Occupational Health and Safety Commission	TWA	Time Weighted Average
		ug/24H	micrograms per 24 hours
		UN	United Nations (number)
		Wt	weight

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Thursday 22nd August 2019

Update CHEMWATCH Phone Number

Update Dates



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