

# Material Safety Data Sheet

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### CRYSTAL

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Classified as **Hazardous** according to criteria of NOHSC<sup>1</sup> and **Dangerous Goods** according to the ADG Code<sup>2</sup>

UN NO.....:	1760	D.G. Class.:	8	Pack. Group...:	II
HAZCHEM:	2X	SUB. RISK.:	None allocated	SUSDP.....:	S6

**PROPER SHIPPING NAME:** CORROSIVE LIQUID, N.O.S. ( Potassium hydroxide <25%)

**PRODUCT USE:** Glass washing through dispenser.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Potassium hydroxide	1310-58-3	20-25
Sodium hypochlorite	7681-52-9	<2
Surfactant	Not required <sup>a</sup>	<2
Other ingredients	Not required <sup>a</sup>	<5
Water	Not required	70-90

<sup>a</sup> Ingredients not classified as hazardous or below their relevant concentration cut-off levels.  
See Section 8, Exposure Controls / Personal Protection

## 3. HAZARDS IDENTIFICATION

Contact with acids liberates toxic gas.  
Causes severe burns.

## 4. FIRST AID MEASURES

**Eyes:** Immediately flush with water for 15 minutes. Get immediate medical attention.  
Continue rinsing eye until medical attention arrives. Possible caustic alkali burns.

**Skin:** Take off all contaminated clothing. Thoroughly wash contaminated area with water. Consult a physician if irritation develops or persists. Possible caustic alkali burns.

**Inhalation:** Remove to fresh air. If breathing difficulties occur give artificial respiration. Consult a physician immediately. Possible caustic alkali burns.

**Ingestion:** **Do not induce vomiting.** Get medical attention immediately.

**First Aid:** Premises handling this material should be equipped with a safety shower and eye wash

**Facilities:** facilities.

## 5. FIRE FIGHTING MEASURES

Flash Point ..... Not applicable  
 Auto-ignition Temperature ..... Not applicable  
 Lower Explosive Limit ..... Not applicable  
 Upper Explosive Limit ..... Not applicable

### Suitable Extinguishing Media:

Use foam, water spray, CO<sub>2</sub> or dry powder as applicable to surrounding fire.

### Protective Equipment for Fire Fighting:

Thermal decomposition can release hazardous fumes.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

Caution: Floor may be slippery. Provide sufficient ventilation. Wear personal protective equipment to prevent contact with skin and eyes.

Do not allow into drains or waterways. Take up with inert absorbent material (sand, universal absorbent).

Dispose of empty containers in accordance with federal, state and local laws.

## 7. HANDLING AND STORAGE

UN 1760 CLASS 8 CORROSIVE – Transport and store in accordance with dangerous goods requirements. Wear personal protective equipment to prevent contact with skin and eyes.

Keep containers tightly closed and store in a cool, well-ventilated area.

Store away from acids and other incompatible materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limit Information

Ingredient	NOHSC <sup>1</sup>			
	TWA		STEL	
	(ppm)	(mg/m <sup>3</sup> )	(ppm)	(mg/m <sup>3</sup> )
Sodium hypochlorite	a	-	a	-
Potassium hydroxide	-	2b	-	a

a = not listed

b = peak limitation

Sodium hypochlorite release chlorine which has a 1ppm TWA peak limitation.

TWA = Time Weighted Average

STEL= Short term Exposure Limit

<sup>1</sup> National Occupational Health and Safety Commission (Australia)

### Respiratory Protection

If vapours and mists occur, a respiratory protection program meeting Australian and New Zealand Standards AS/NZS 1716 and AS/NZS1715 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are

maintained below the exposure limit listed in "Exposure Limit Information"

#### **Eye Protection**

Use chemical splash goggles (Australian Standard AS-1337) or approved equivalent. Eye protection worn must be compatible with respiratory protection system employed.

#### **Hand Protection**

Nitrile, neoprene or other impervious and alkali resistant gloves, and protective clothing as necessary to prevent skin contact.

#### **Engineering Controls (Ventilation)**

Use local exhaust ventilation sufficient to maintain exposure levels below exposure limit concentrations. Refer to Australian Standard AS-1668.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance and colour .....	Clear
State .....	Liquid
Odour Characteristic .....	Slight chlorine
pH .....	12 – 13 undiluted
Viscosity .....	Not specified
Specific Gravity (Water = 1) .....	~ 1.05
Vapour Density (Air = 1) .....	Not specified
Vapour Pressure .....	Not determined
Melting Point .....	Not determined
Boiling Point .....	100°C initial, water
Solubility in Water .....	Completely soluble
Flash Point .....	Not applicable

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## **10. STABILITY AND REACTIVITY**

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#### **Hazardous reactions**

Violent, exothermic reaction with acids. Corrosive to non-ferrous metals.

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## **11. TOXICOLOGICAL INFORMATION**

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#### **Acute Data (Potassium Hydroxide)**

Skin:	Corrosive (NOHSC Designated List)
Eyes:	Corrosive (NOHSC Designated List)
Inhalation:	Severely irritating.
Ingestion:	Corrosive (NOHSC Designated List)

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## **12. ECOLOGICAL INFORMATION**

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#### **Ecotoxicological Effects**

Harmful to aquatic organisms in unneutralised form.

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## **13. DISPOSAL CONSIDERATIONS**

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Dispose of empty containers in accordance with federal, state and local laws.

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## **14. TRANSPORT INFORMATION**

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Classified as Dangerous Goods according to the Australian Code For The Transport Of Dangerous

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## 15. REGULATORY INFORMATION

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Labelling Requirements According to Criteria of NOHSC<sup>1</sup>:

R31	Contact with acids liberates toxic gas.
R35	Causes severe burns.
S2	Keep out of reach of children.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S46	If swallowed, seek medical advice immediately and show this container or label.
S28	After contact with skin, wash immediately with plenty of soap-suds.
S50	Do not mix with acids.

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## 16. OTHER INFORMATION

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<sup>1</sup> National Occupational Health and Safety Commission – Australia

<sup>2</sup> Australian Code For The Transport Of Dangerous Goods By Road And Rail (Sixth Edition).

The advice and information contained herein is based on the original raw material supplier's information. Green Dolphin Eucalip believes the information to be accurate and reliable as at the date supplied, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability, or completeness of the advice and information. Green Dolphin Eucalip urges persons receiving this advice and information to make their own determination as to the advice and information's suitability and completeness for their own particular situation."

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