# SAFETY DATA SHEET



Revision date: 22-Mar-2023

### Revision Number 5

### **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product identifier	
Product Name	CHLORINE REAGENT 3
Product Code(s)	00000008614
Other means of identification	
Recommended use of the chemical	and restrictions on use
Recommended use	Laboratory reagent.
Uses advised against	Foodstuffs.
Details of the supplier of the safety	data sheet
Supplier Ixom Operations Pty Ltd (Incorporated NZBN: 9429041465226 Address: 166 Mt Maunganui South New Zealand	
Telephone Number: +64 9 368 2700 Facsimile: +64 9 368 2710	
For further information, please cont	act
Contact Point	Product Safety Department
Emergency telephone number	
Emergency Telephone	0 800 734 607 (ALL HOURS)
Please ensure you refer to the limitations of this	Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.
2. HAZARDS IDENTIFICAT	ION
Not classified as a Dangerous Good u	nder NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.
Classified as hazardous according to o	criteria in the Hazardous Substances (Hazard Classification) Notice 2020.
GHS Classification	
SIGNAL WORD Warning	
Laboratory Chemicals and Reagent Ki Approval Number: HSR002596	ts Group Standard 2020

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

### Label elements



#### Hazard statements H315 - Causes skin irritation H319 - Causes serious eye irritation

#### Precautionary Statements - Prevention Keep out of reach of children. Precautionary Statements - Response Specific treatment (see First aid on this SDS) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse Precautionary Statements - Storage No storage statements Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Other hazards which do not result in classification

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### <u>Mixture</u>

Chemical name	CAS No.	Weight-%
Sodium hydroxide	1310-73-2	<1
Non hazardous component(s)	-	to 100

### 4. FIRST AID MEASURES

#### Description of first aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.
Emergency telephone number	Poisons Information Center, New Zealand: 0800 764 766 Poisons Information Center, Australia: 13 11 26
Inhalation	Remove to fresh air. Call a physician if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. Call a physician if symptoms occur.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Get medical attention if symptoms occur.

### Most important symptoms and effects, both acute and delayed Irritation. Erythema (skin redness). May cause redness and tearing of the eyes. Symptoms Indication of any immediate medical attention and special treatment needed Treat symptomatically. Note to physicians 5. FIRE FIGHTING MEASURES Suitable Extinguishing Media **Suitable Extinguishing Media** Dry chemical, CO2, water spray or regular foam. Unsuitable extinguishing media No information available. Specific hazards arising from the chemical Specific hazards arising from the Thermal decomposition can lead to release of irritating gases and vapors. chemical Special protective actions for fire-fighters Special protective equipment for Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. fire-fighters 6. ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures **Personal precautions** Avoid contact with skin and eyes. Avoid breathing vapors or mists. Stop leak if you can do it without risk. Evacuate personnel to safe areas. Do not touch or walk through spilled material. Use personal protective equipment as required. Wash thoroughly after handling. Use personal protection recommended in Section 8. For emergency responders Environmental precautions See Section 12 for additional Ecological Information. **Environmental precautions** Methods and material for containment and cleaning up Methods for containment Prevent further leakage or spillage if safe to do so. Use a non-combustible material like vermiculite, sand or earth to soak up the product and Methods for cleaning up

Precautions to prevent secondary hazards

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

place into a container for later disposal.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Avoid contact with skin and eyes. Avoid breathing vapors or mists. Use personal protection equipment. Wash thoroughly after handling. Keep out of reach of children.
Conditions for safe storage, including	ng any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from foodstuffs. Keep container closed when not in use.
Incompatible materials	Acids.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** 

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for constituent(s):

Sodium hydroxide: Ceiling 2 mg/m<sup>3</sup>

As published by the New Zealand Workplace Health & Safety Authority.

WES - Ceiling (Workplace Exposure Standard - Ceiling). A concentration that should not be exceeded during any part of the working day.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### Appropriate engineering controls

**Engineering controls** Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

#### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent 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.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.



Eye/face protection	Goggles.
Hand protection	Impervious gloves.
Skin and body protection	Boots. Wear suitable protective clothing. Overalls.
Respiratory protection	If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Environmental exposure controls	No information available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Colourless
Odor	Odourless
Odor threshold	No information available

Drowerty	Values	Demerika - Mathad
Property	Values	Remarks • Method
рН	12.5	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	100°C	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other information

### **10. STABILITY AND REACTIVITY**

Reactivity	
Reactivity	No information available.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Explosion data	

Sensitivity to static discharge	None.
Possibility of hazardous reactions	
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	
Conditions to avoid	Contact with foodstuffs.
Incompatible materials	
Incompatible materials	Acids.

Hazardous decomposition products

Hazardous decomposition products Oxides of sulfur. Oxides of sodium.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

### Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:
Inhalation	May cause irritation.
Eye contact	Causes serious eye irritation.
Skin contact	Causes skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Symptoms	Irritation. May cause redness and tearing of the eyes. Erythema (skin redness).

### Acute toxicity

Numerical measures of toxicity

Refer to component information below.

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide	-	= 1350 mg/kg (Rabbit)	-

See section 16 for terms and abbreviations

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Causes skin irritation. Classification is based on mixture calculation methods based on component data.
Serious eye damage/eye irritation	Causes serious eye irritation. Classification is based on mixture calculation methods based on component data.
Respiratory or skin sensitization	No information available.

Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - single exposure STOT - repeated exposure	No information available. No information available.

### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Keep out of waterways.

Terrestrial ecotoxicity There is no data for this product.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium hydroxide	-	LC50: =45.4mg/L (96h,	-
,		Oncorhynchus mykiss)	

#### Persistence and degradability

Persistence and degradability	No information available.
Bioaccumulative potential	
Bioaccumulation	No information available.
Mobility	
Mobility in soil	No information available.
Other adverse effects	
Other adverse effects	No information available.

## **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Waste from residues/unused products	Dispose of product in packaging/container in a way that is consistent with the Hazardous Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments and Revocations) Notice 2020. Treat the chemical using a method that changes the characteristics or composition of the chemical so that the chemical is no longer a hazardous chemical; or export the chemical from New Zealand as waste.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT	Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.
IATA_	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.
IMDG_	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

### **15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

New Zealand	
National regulations	See section 8 for national exposure control parameters
International Inventories NZIoC TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AIIC	Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. All the constituents of this material are listed on the Australian Inventory of Industrial Chemicals.

Legend:

NZIOC - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AIIC- Australian Inventory of Industrial Chemicals** 

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **16. OTHER INFORMATION**

Supplier Safety Data Sheet 04/2022

Prepared By		This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).			
Issuing Date: Reason(s) For Issue:		22-Mar-2023 5 Yearly Revised Primary SDS			
					Revision Note:
• • • • •	C C				
	to abbreviations and n 8: EXPOSURE CON			leet	
TWA	TWA (time-weight		STEL	STEL (Short Term Exposure Limit)	
Ceiling	Maximum limit va		*	Skin designation	
C	Carcinogen			-	
EPA (Environm Acute Exposure U.S. Environme Food Research Hazardous Sub International Un Japan GHS Cla Australian Indus NIOSH (National National Library National Library National Toxico New Zealand's Organization for Organization for Organization for RTECS (Regist World Health O	stance Database hiform Chemical Inform ssification strial Chemicals Introd al Institute for Occupar of Medicine's ChemII of Medicine's PubMe logy Program (NTP) Chemical Classification r Economic Co-operat r Economic Co-operat r Economic Co-operat r Economic Co-operat r ganization	cy) IEGL(s)) y Federal Insecticide, y High Production Vol nation Database (IUCI uction Scheme (AICIS tional Safety and Heal D Plus (NLM CIP) d database (NLM PUI d database (NLM PUI ion and Information Dat ion and Development ion and Development chemical Substances)	ume Chemicals LID) S) Ith) BMED) tabase (CCID) Environment, Hea High Production V Screening Informa	alth, and Safety Publications /olume Chemicals Program ation Data Set	
and general gu anticipate or co	idance on how to sa	fely handle the mate under which the pro-	erial in the workpl	nemical health and safety hazards of the materia lace. Since Ixom Operations Pty Ltd cannot ed, each user must, prior to usage, assess and	I

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

#### End of Safety Data Sheet