# SAFETY DATA SHEET



Revision date: 25-Mar-2024

Revision Number 7

# Section 1: Identification

**Product identifier** 

Product Name CHLOROZOLV

Product Code(s) 000034426001

Other means of identification

UN number or ID number 1719

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

**Recommended use**CIP of food processing plants, silos, pipelines and heat exchangers. Periodic cleaning of

long-term protein fouling on stainless steel plant.

**Uses advised against**No information available.

Details of manufacturer or importer

**Supplier** 

Ixom Operations Pty Ltd ABN: 51 600 546 512 Level 8, 1 Nicholson Street Melbourne 3000 Australia

Telephone Number: +61 3 9906 3000

### Emergency telephone number

Emergency telephone number 1 800 033 111 (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.

### Section 2: Hazard identification

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS). Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail: DANGEROUS GOODS.

### **GHS Classification**

Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

### Label elements

Page 1/11

Corrosion

Exclamation mark



#### Signal word DANGER

#### **Hazard statements**

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

H410 - Very toxic to aquatic life with long lasting effects

#### **Precautionary Statements - Prevention**

Keep only in original container.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

Avoid release to the environment.

### **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. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Absorb spillage to prevent material damage.

Collect spillage.

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Store in corrosion resistant container with a resistant inner liner.

### **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

Contact with acids liberates toxic gas.

# Section 3: Composition and information on ingredients

Chemical name	CAS No.	Weight-%
Non hazardous component(s)	-	>60%
Sodium hydroxide	1310-73-2	5-<30%
Sodium hypochlorite	7681-52-9	<10%

### Section 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. Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is

difficult, (trained personnel should) give oxygen. If breathing has stopped, give artificial

respiration. Get medical attention immediately.

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and Eye contact

continue flushing for at least 15 minutes. Immediate medical attention is required.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin Skin contact

with water/shower. Immediately call a POISON CENTER or doctor/physician.

Rinse mouth thoroughly with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Ingestion

Get immediate medical attention.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Irritation/Corrosion. May cause redness and tearing of the eyes. Erythema (skin redness).

Burning. Coughing and/ or wheezing. Difficulty in breathing.

No information available. **Effects of Exposure** 

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. Can cause corneal burns.

### Section 5: Firefighting measures

Suitable Extinguishing Media

Dry chemical, CO2, water spray or regular foam. Suitable extinguishing media

No information available. Unsuitable extinguishing media

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Environmentally

hazardous. Non-combustible.

Special protective actions for fire-fighters

Special protective equipment and

precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

Hazchem code 2R

# Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapor or mist. Avoid contact with skin, eves or clothing. Do not touch or walk Personal precautions

> through spilled material. Ensure adequate ventilation. Evacuate personnel to safe areas. Use personal protective equipment as required. Wash thoroughly after handling.

Environmental precautions

**Environmental precautions**Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and

place into a container for later disposal. After cleaning, flush away traces with water.

# Section 7: Handling and storage

Precautions for safe handling

Advice on safe handling Do not breathe vapor or mist. Avoid contact with skin, eyes or clothing. Do not eat, drink or

smoke when using this product. Ensure adequate ventilation. Use personal protection

equipment. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container

closed when not in use. Store away from foodstuffs.

Incompatible materials Acids. Metals. Metal salts. Reducing agent. Peroxides. Ammonium salts. Ethylene diamine

tetraacetic acid.

### Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits No value assigned for this specific material by Safe Work Australia. However, Workplace

Exposure Standard(s) for constituent(s):

Sodium hydroxide: Peak Limitation = 2 mg/m<sup>3</sup>

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

Peak Limitation - a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

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** Ensure that eyewash stations and safety showers are close to the workstation location.

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. Apply technical measures to comply with occupational exposure limits.

#### 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, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.



Eye/face protection Tight sealing safety goggles. If splashes are likely to occur:. Face protection shield.

Boots. Apron. Overalls. Skin and body protection

Hand protection Elbow-length impervious gloves.

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.

No information available. Thermal hazards

## Section 9: Physical and chemical properties

#### Information on basic physical and chemical properties

**Physical state** Liquid

Appearance No information available

Color Pale Yellow Odor Faint Chlorine

**Odor threshold** No information available

**Property** Values Remarks • Method 12.5 (1% v/v solution) None known Hq pH (as aqueous solution) No data available None known Melting point / freezing point <5°C None known Boiling point / boiling range No data available None known Not applicable Flash point None known No data available **Evaporation rate** None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known No data available

Upper flammability or explosive

limits

Lower flammability or explosive No data available

limits

No data available None known Vapor pressure Vapor density No data available None known Relative density 1.22 ± 0.02 @20°C None known Water solubility Miscible in water None known Solubility(ies) No data available None known Partition coefficient No data available None known

Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity

Not applicable
No data available
No data available
No data available
No data available
None known
No data available
None known

Other information

# Section 10: Stability and reactivity

Reactivity

**Reactivity** Contact with acids liberates toxic gas.

Chemical stability

Stability Stable under anticipated storage and handling conditions. Contamination of solution and

exposure to light or heat will accelerate decomposition.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions Contact with acids liberates toxic gas. Contact with water generates heat. May react with

ammonium salts resulting in evolution of ammonia gas. Ethylene diamine tetraacetic acid, and its salts, react violently with materials containing sodium hypochlorite, producing heat.

Conditions to avoid

Conditions to avoid Contact with foodstuffs. Do not contaminate food or feed stuffs. Heat. Direct sunlight.

Incompatible materials

Incompatible materials Acids. Metals. Metal salts. Reducing agent. Peroxides. Ammonium salts. Ethylene diamine

tetraacetic acid.

Hazardous decomposition products

Hazardous decomposition products Chlorine.

### Section 11: Toxicological information

#### 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 damage.

**Skin contact** Contact causes severe skin irritation and possible burns.

**Ingestion** Can burn mouth, throat, and stomach.

Symptoms May cause redness and tearing of the eyes. Erythema (skin redness). Burning. Coughing

and/ or wheezing. Difficulty in breathing. Irritation/Corrosion.

#### Acute toxicity .

Numerical measures of toxicity - Product Information

No information available

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg ( Rabbit )	•
Sodium hypochlorite	= 8.91 g/kg (Rat)	> 20000 mg/kg (Rabbit)	> 10.5 mg/L (Rat)1 h

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 severe burns. Classification is based on mixture calculation methods based on

component data.

Serious eye damage/eye irritation Causes serious eye damage. 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** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	Australia	European Union	IARC
Sodium hypochlorite - 7681-52-9	-	-	Group 3

### IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

Aspiration hazard No information available.

# Section 12: Ecological information

**Ecotoxicity** 

**Aquatic ecotoxicity** Very toxic to aquatic life with long lasting effects. Keep out of waterways.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium hypochlorite	-	LC50: 0.06 - 0.11mg/L (96h, Pimephales promelas) LC50: 4.5 - 7.6mg/L (96h, Pimephales promelas) LC50: 0.4 - 0.8mg/L (96h, Lepomis macrochirus) LC50: 0.28 - 1mg/L (96h, Lepomis macrochirus) LC50: 0.05 - 0.771mg/L (96h, Oncorhynchus mykiss) LC50: 0.03 - 0.19mg/L (96h, Oncorhynchus mykiss) LC50: 0.18 - 0.22mg/L (96h, Oncorhynchus mykiss)	-	EC50: 0.033 - 0.044mg/L (48h, Daphnia magna)

**Terrestrial ecotoxicity** There is no data for this product.

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Mobility** 

**Mobility** No information available.

Other adverse effects

Other adverse effects No information available.

# Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Refer to Waste Management Authority. Dispose of material through a licensed waste

contractor.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

See section 8 for more information

# Section 14: Transport information

ADG Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code

(ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN number or ID number 1719

Proper shipping name CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS SODIUM HYDROXIDE AND SODIUM

HYPOCHLORITE)

Transport hazard class(es) 8
Packing group II
Hazchem code 2R

IATA Classified as Dangerous Goods by the criteria of the International Air Transport Association

(IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN number 1719

UN proper shipping name CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS SODIUM HYDROXIDE AND SODIUM

HYPOCHLORITE)

Transport hazard class(es) 8
Packing group | |

**IMDG** Classified as Dangerous Goods by the criteria of the International Maritime Dangerous

Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN number 1719

UN proper shipping name CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS SODIUM HYDROXIDE AND SODIUM

HYPOCHLORITE) MARINE POLLUTANT

Transport hazard class(es)

Packing group

IMDG EMS Fire

F-A

IMDG EMS Spill

S-B

Marine pollutant

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

### Section 15: Regulatory information

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

National regulations

#### <u>Australia</u>

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS). Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Poison Schedule Number 6

**Australian Industrial Chemicals Introduction Scheme (AICIS)** 

Contact supplier for inventory compliance status

	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Sodium hydroxide - 1310-73-2	Present	-
Sodium hypochlorite - 7681-52-9	Present	-

#### **Illicit Drug Precursors/Reagents**

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

**International Inventories** 

All the constituents of this material are listed on the Australian Inventory of Industrial

Chemicals or are exempt.

NZIoC All the constituents of this material are listed on the New Zealand Inventory of Chemicals or

are exempt.

TSCA

Contact supplier for inventory compliance status.

KECL

Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

#### Legend:

### **AIIC- Australian Inventory of Industrial Chemicals**

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

### **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

# Section 16: Other information

Reason(s) For Issue: 5 Yearly Revised Primary SDS

Prepared By This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and

SDS Services).

Revision date: 25-Mar-2024

**Revision Note:** 

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

### **Disclaimer**

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

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**