

# SAFETY DATA SHEET

Revision date: 21-Mar-2024 Revision Number 7

# Section 1: Identification

**Product identifier** 

Product Name CALCIUM CHLORIDE DIHYDRATE

**Product Code(s)** 000033272701

Other means of identification

**CAS No.** 10035-04-8

Recommended use of the chemical and restrictions on use

**Recommended use**Binder, coagulant, fire retardant, freezing point depressant, fungicide, preservative,

sequestrant.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier

Ixom Operations Pty Ltd (Incorporated in Australia) NZBN: 9429041465226 Address: 166 Totara Street

Mt Maunganui South

New Zealand

Telephone Number: +64 9 368 2700

Facsimile: +64 9 368 2710

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.

## Section 2: Hazard identification

Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020. GHS Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

#### Label elements



#### Signal word Warning

Hazard statements H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

### **Precautionary Statements - Prevention**

Do not breathe dusts or mists.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wash eyes thoroughly after handling.

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

Wear protective gloves/clothing and eye/face protection.

Wear respiratory protection.

## **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell.

Specific treatment (see First aid on this SDS).

## **Eyes**

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.

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#### Skin

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

### Inhalation

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

Call a POISON CENTER or doctor/physician if you feel unwell.

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

# **Precautionary Statements - Storage**

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

Store locked up.

## **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

# Section 3: Composition/information on ingredients

Chemical name	CAS No.	Weight-%
Calcium chloride, dihydrate	10035-04-8	>60%

## 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.

Inhalation Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. Give

artificial respiration if victim is not breathing. Get medical attention immediately if symptoms

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occur.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep Eye contact

eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical Skin contact

attention if irritation develops and persists.

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth Ingestion

to an unconscious person. Get medical attention if symptoms occur.

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Self-protection of the first aider

Most important symptoms and effects, both acute and delayed

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

wheezing. Difficulty in breathing. Irritation.

**Effects of Exposure** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Oral ingestion may cause serum acidosis.

# Section 5: Fire-fighting measures

Suitable Extinguishing Media

**Suitable Extinguishing Media** Use extinguishing agent suitable for type of surrounding fire.

No information available. Unsuitable extinguishing media

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

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.

### Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Do not breathe dust. Ensure adequate ventilation. **Personal precautions** 

Evacuate personnel to safe areas. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Do not eat, drink or smoke when using this product. Use personal

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protective equipment as required. Wash thoroughly after handling.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

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 appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled

material and place in suitable container. Avoid generating dust. After cleaning, flush away

traces with water.

Precautions to prevent secondary hazards

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

# Section 7: Handling and storage

Precautions for safe handling

Advice on safe handling Avoid contact with skin and eyes. Do not breathe dust. Do not eat, drink or smoke when

using this product. Ensure adequate ventilation. Use personal protection equipment. Wash

thoroughly after handling.

General hygiene considerations Avoid contact with eyes. Do not eat, drink or smoke when using this product. Wash hands

and face before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

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

moisture. Keep container closed when not in use.

Incompatible materials Methyl vinyl ether, water, zinc, bromine trifluoride, mixtures of lime and boric acid, barium

chloride, 2-furan percarboxylic acid; strong acids, strong bases, bromine trifluoride,

polymerizable materials.

## Section 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 constituents and particulates...

Particulates not otherwise classified: 8hr WES-TWA 10 mg/m³ (inhalable dust) or 3 mg/m³ (respirable dust)

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

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard

is designed to protect the worker from the effects of long-term exposure.

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.

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#### 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, DUST MASK.



Hand protection Impervious gloves.

**Skin and body protection**Overalls. Wear suitable protective clothing. Boots.

Respiratory protection If determined by a risk assessment an inhalation risk exists, wear a dust mask/respirator

meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Environmental exposure controls** No information available.

# Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid Appearance Granules

Color White or Grey - White

Odor Odourless.

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

8-9 (aqueous solution) None known pН 772°C Melting point / freezing point None known >1600°C None known Boiling point / boiling range Flash point Not applicable None known No data available **Evaporation rate** 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 pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 2.15

Water solubilitySoluble in waterNone knownSolubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone known

Kinematic viscosity

Dynamic viscosity

Explosive properties

Oxidizing properties

No data available
No information available.
No information available.

Other information

Softening point
Molecular weight
VOC Content (%)
Liquid Density
Bulk density
No information available
No information available
No information available
No information available

**Particle characteristics** 

# Section 10: Stability and reactivity

Reactivity

Reactivity Hygroscopic.

**Chemical stability** 

**Stability** Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

**Hazardous polymerization** Hazardous polymerization does not occur.

Possibility of hazardous reactions Contact with water generates heat.

Conditions to avoid

**Conditions to avoid** Avoid exposure to moisture.

Incompatible materials

Incompatible materials Methyl vinyl ether, water, zinc, bromine trifluoride, mixtures of lime and boric acid, barium

chloride, 2-furan percarboxylic acid; strong acids, strong bases, bromine trifluoride,

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polymerizable materials.

Hazardous decomposition products

Hazardous decomposition products Calcium oxide. Hydrogen chloride. Chlorine.

## Section 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

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mishandled and overexposure occurs are:

**Inhalation** Irritating to respiratory system.

**Eye contact** Causes serious eye irritation.

**Skin contact** Causes skin irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

and/ or wheezing. Difficulty in breathing.

Acute toxicity .

**Numerical measures of toxicity** 

On basis of test data

**Oral LD50** 1000 mg/kg (rat)

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

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**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** May cause respiratory irritation.

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

**Aspiration hazard** No information available.

Data used to identify the health

effects

Refer to Section 16 for Key literature references and sources for data used to compile the

SDS.

# Section 12: Ecological information

**Ecotoxicity** 

Aquatic ecotoxicity Keep out of waterways.

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

**Persistence and degradability**Biodegradation is not an applicable endpoint since the product is an inorganic substance.

Bioaccumulative potential

**Bioaccumulation** Not likely to bioaccumulate.

Mobility in soil

**Mobility** No information available.

Other adverse effects

No information available.

# Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of product in packaging in a way that is consistent with the EPA Consolidation 30

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April 2021 of the Hazardous Substances (Disposal) Notice 2017 and the Act.

Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the

substance from New Zealand as waste.

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

disposal..

## Section 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.

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

No information available

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

# Section 15: Regulatory information

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

**EPA New Zealand HSNO approval** 

code or group standard

To be determined

National regulations

There are no applicable tolerable exposure limits or environmental exposure limits

according to the EPA Controls for Hazardous Substances

Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information

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Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information

Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for

more information

#### **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

**International Inventories** 

**NZIoC** This material is listed on the New Zealand Inventory of Chemicals.

TSCA

Contact supplier for inventory compliance status.

AllC This material is listed on the Australian Inventory of Industrial Chemicals.

TCSI Contact supplier for inventory compliance status.

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** 

TCSI - Taiwan Chemical Substance Inventory

# Section 16: Other information

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

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SDS Services).

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

Change in Hazardous Chemical Classification

#### **Revision Note:**

\*\*\*Indicates updated data since last publication.

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 \* Hazard Designation + Sensitizers

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)

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 lxom representative or lxom 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**