



Signal word

Danger

Hazard statement(s)

H315
H318
H335

Causes skin irritation
Causes serious eye damage
May cause respiratory irritation

Precautionary statement(s)

P261
P271
P280
P302+P352
P304+P340
P305+P351+P338

Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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/doctor/physician
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 74.1

Components

Component	CAS no.	Concentration
Calcium hydroxide (EC no.: 215-137-3)	1305-62-0	100 % (weight)
CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 1; Skin corrosion/irritation, Cat. 2; Specific target organ toxicity following single exposure, Cat. 3. HAZARDS: H315 - Causes skin irritation; H318 - Causes serious eye damage; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness.		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

First Aid Facilities: Eye wash fountains and safety showers should be located near any area where calcium hydroxide is handled.

If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear

In case of skin contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

In case of eye contact

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.

If swallowed Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

Specific hazards arising from the chemical

Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.

Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid raising a dust cloud. Evacuate the area of all non-essential personnel. Avoid contact with skin, eyes, nose, mouth.

Methods and materials for containment and cleaning up

Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

SECTION 7: Handling and storage

Precautions for safe handling

Store in air-tight, water-tight containers in a cool, dry place. Store in suitable, labelled containers. Keep containers closed when not in use and when empty. Protect from damage. Avoid any dust build-up by frequent cleaning and suitable construction of storage area.

Conditions for safe storage, including any incompatibilities

Store in air-tight, water-tight containers in a cool, dry place. Store in suitable, labelled containers. Keep containers closed when not in use and when empty. Protect from damage. Avoid any dust build-up by frequent cleaning and suitable construction of storage area.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 1305-62-0

Calcium hydroxide

AU/SWA (Australia): 5 mg/m³ TWA inhalation;

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Maintain eye and quick drench facilities in work area.

Skin protection

Hand protection such as rubber or plastic gloves should comply with AS 2161 Industrial Safety Gloves and Mittens (Excluding Electrical and Medical Gloves).

Body protection

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	Soft, white or greyish-white solid.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	Decomposes @ 580 °C
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	Not considered to be an explosion hazard.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	12.4 (saturated solution @ 25 °C)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: 1.7 g/l (20 °C) Solubility in Organic Solvents: Soluble in acids, glycerol, sugar and ammonia salt solutions; insoluble in alcohol.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	Zero
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 2.24 (@ 20 °C, water=1)
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under ordinary conditions of use and storage. Readily absorbs carbon dioxide from air to form calcium carbonate.

Possibility of hazardous reactions

[22] Hazardous Polymerization: Will not occur.

Conditions to avoid

Air and incompatibles.

Incompatible materials

Strong acids, maleic anhydride, nitro organic compounds, light metals and phosphorus.

Hazardous decomposition products

Calcium oxide.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Oral: Oral LD50 (rat): 7340 mg/kg.

Ingestion: May cause a burning sensation, mild corrosion of the mouth, throat and esophagus, and stomach cramps may result.

Inhalation: Dusts or mists may be irritating to the nose, throat and upper respiratory tract.

Skin corrosion/irritation

Burning sensation and inflammation can result.

Serious eye damage/irritation

Risk of serious damage to eye.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No evidence of mutagenic properties.

Carcinogenicity

No evidence of carcinogenic properties.

Reproductive toxicity

No data available.

Specific target organ toxicity (STOT) - single exposure

Dusts or mists may be irritating to the nose, throat and upper respiratory tract.

Specific target organ toxicity (STOT) - repeated exposure

Safety Data Sheet

CALCIUM HYDROXIDE

SDS no. M9TGMPSU • Version 1.0 • Date of issue: 2023-07-12

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Neutralisation possible in waste water treatment plants.

Acute Toxicity - Fish: *Clarias gariepinus* LC50: 34 mg/l /96 h.

Persistence and degradability

Methods for the determination of biodegradability are not applicable to inorganic substances.

Concentration in organisms is not to be expected.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

Canadian Domestic Substances List (DSL)

Chemical name: Calcium hydroxide (Ca(OH)₂)

CAS: 1305-62-0

New Jersey Right To Know Components

Common name: CALCIUM HYDROXIDE

CAS number: 1305-62-0

Pennsylvania Right To Know Components

Chemical name: Calcium hydroxide

CAS number: 1305-62-0

SECTION 16: Other information

Further information/disclaimer

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)