

Safety Data Sheet SODA LIME

SDS no. W7WXJVMU • Version 1.0 • Date of issue: 2023-09-05

SECTION 1: Identification

GHS Product identifier

Product name SODA LIME

Recommended use of the chemical and restrictions on use

Drying agent, carbon dioxide absorbant and laboratory reagent.

Supplier's details

Name ChemSupply Australia Pty Ltd
Address 38-50 Bedford Street
5013 Gillman South Australia
Australia

Telephone 08 8440 2000
email www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H314

Causes severe skin burns and eye damage

Precautionary statement(s)

P260

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

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353

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

P304+P340

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

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor/physician

P363

Wash contaminated clothing before reuse.

P501

Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

A mixture of calcium hydroxide with sodium hydroxide.

Components

Component	CAS no.	Concentration
Calcium hydroxide (EC no.: 215-137-3) CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 1; Skin corrosion/irritation, Cat. 2. HAZARDS: H315 - Causes skin irritation; H318 - Causes serious eye damage.	1305-62-0	75 - > 85 % (weight)
Sodium hydroxide (EC no.: 215-185-5; Index no.: 011-002-00-6) CLASSIFICATIONS: Skin corrosion/irritation, Cat. 1A. HAZARDS: H314 - Causes severe skin burns and eye damage. [SCLs/M-factors/ATEs]: Skin Corr. 1A; H314: C ≥ 5 %; Skin Corr. 1B; H314: 2 % ≤ C < 5 %; Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %; Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %	1310-73-2	< 4 % (weight)
Water/Aqua/Eau CLASSIFICATIONS: No data available. HAZARDS: No data available.	7732-18-5	10 - 20 % (weight)

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek immediate medical advice /attention depending on the severity.

In case of eye contact

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Safety Data Sheet

SODA LIME

SDS no. W7WXJVMU • Version 1.0 • Date of issue: 2023-09-05

If swallowed

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice.

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, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use measures suitable for extinguishing surrounding fire. Use water, foam, carbon dioxide or powder.

Specific hazards arising from the chemical

Material is not combustible.

Calcium oxides, Sodium oxides.

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

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

SECTION 7: Handling and storage

Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

Conditions for safe storage, including any incompatibilities

Sensitive to air and moisture.

In the presence of moisture, corrosive to aluminium, zinc and tin.

Stored between 0 and 35 °C.

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.f the

Safety Data Sheet

SODA LIME

SDS no. W7WXJVMU • Version 1.0 • Date of issue: 2023-09-05

engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

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.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	White or off-white granules.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	No data available.
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	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	12 - 14 strongly alkaline.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Slightly soluble.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 2.0 g/cm ³
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

None known, based on information available

Chemical stability

Stable. Converts to calcium and sodium carbonates when exposed to air.

Possibility of hazardous reactions

Heat is generated when exposed to acids. Reacts with ammonium salts evolving ammonia gas.

Conditions to avoid

Heat and incompatibles.

Incompatible materials

Acids, chloroform, trichloroethylene and ammonium salts. Halogenated solvents

Hazardous decomposition products

Calcium oxides. Sodium oxides.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Harmful by ingestion. Irritation and burning of the mucous membranes in the mouth, throat, pharynx, oesophagus and gastrointestinal tract. Symptoms include of abdominal pain, vomiting, diarrhea, nausea and collapse.

Harmful by inhalation. May cause irritation of the nose, throat and lungs. Symptoms include of sneezing, coughing, laboured breathing, spasm, burning sensation, laryngitis, headache, nausea and vomiting.

Skin corrosion/irritation

Causes burns.

Serious eye damage/irritation

Causes burns. May cause irritation, redness, tearing, blurred vision and pain. May damage eye tissue and, in severe cases, cause permanent blindness. Risk of corneal clouding.

Respiratory or skin sensitization

Not expected to be a respiratory or skin sensitiser.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Safety Data Sheet

SODA LIME

SDS no. W7WXJVMU • Version 1.0 • Date of issue: 2023-09-05

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

Repeated or prolonged skin contact may cause chronic dermatitis.

SECTION 12: Ecological information

Toxicity

Converts to naturally occurring minerals.

Calcium Hydroxide - LC50 = 160 mg/L, 96h static (Gambusia affinis)

Sosium Hydroxid - LC50: = 45.4 mg/L, 96h static (Oncorhynchus mykiss)

Persistence and degradability

May persist, based on information available. Not relevant for inorganic substances.

Bioaccumulative potential

Bioaccumulation is unlikely

Mobility in soil

Is not likely mobile in the environment due its low water solubility.

Results of PBT and vPvB assessment

No data available

Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

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

Safety Data Sheet

SODA LIME

SDS no. W7WXJVMU • Version 1.0 • Date of issue: 2023-09-05

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: S5

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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Preparation information

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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)