



MATERIAL SAFETY DATA SHEET

MSDS nr:

CALCIUM CARBONATE

CC001

1. COMPANY AND PRODUCT IDENTIFICATION

Company Information: Bontebok Lime Works (pty) Ltd t/a P & B Lime Works
: Swellendam Road, PO Box 2, Bredasdorp, 7280
: www.pandblime.co.za / sales@pandblime.co.za
: 028 424 1157 (tel) / 028 424 1428 (fax)

Product Names: Limestone, Animal Feed lime, Poultry Grit, Aquastab Pebbles,
Cyclone Dust, Agricultural Lime

Synonym: Calcite

Molecular Weight: 100.09

Chemical Formula: CaCO₃

2. COMPOSITION AND INFORMATION ON HAZARDS

Ingredient	Percentage	Hazardous
Calcium Carbonate	80% - 90%	Yes

3. HAZARDS IDENTIFICATION

CAUTION: MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT;
NUISANCE DUST.

Potential Health Effects

Inhalation: Excessive concentration of a nuisance dust may cause nuisance conditions such as coughing, sneezing and nasal irritation.

Ingestion: Non toxic.

Skin Contact: Not expected to be health hazard from skin exposure

Eye Contact: No information found, but expected to be a mechanical irritation.

Chronic Exposure: Excessive oral doses may produce alkalosis and hypocalcaemia.

Aggravation of Pre-existing Conditions: No information found

4. FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do NOT induce vomiting. If large amounts were swallowed, give large quantities of water. Get medical advice.

Skin Contact: Wash with soap and water. Cover irritated skin with an emollient. Get medical advice if irritation occurs.

Eye Contact: Check for and remove contact lenses. In case of contact immediately flush eyes with gentle but large stream of water for at least 15 minutes. Warm water must be used. Call a physician if irritation occurs.

5. FIRE FIGHTING MEASURES

Fire: Not considered to be a fire hazard. Will ignite and burn fiercely in contact with fluorine

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill.

Wear appropriate personal protective equipment.

Residues from spills can be swept up and containerized.

Wet sweeping and vacuuming can be used to prevent dust dispersal.

7. HANDLING AND STORAGE

Keep in a cool, dry, ventilated area.

Protect against physical damage.

Isolate from incompatible substances.

Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Respirators:

For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fine powder

Colour: Amber

Odor: Odorless.

Solubility: 0.001 g/100 ml water.

Specific Gravity: 2.72g/cm³

pH: 8 - 9

% Volatiles by volume @ 21°C (70°F): 0°

Boiling Point: NA

Melting Point: 825 °C

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: When heated to decomposition, emits calcium oxide fumes and liberates carbon dioxide

Hazardous Polymerization: Will not occur

Special Remarks on reactivity:

Hygroscopic

Will ignite and burn fiercely in contact with fluorine

Incompatibilities: Acids, alum, ammonium salts, mercury + hydrogen, aluminum and magnesium

Conditions to Avoid: Air, dusting and incompatibles

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 6450 mg/kg [Rat].

Chronic Effects on Humans: May cause damage to the following organs: kidneys.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin - Causes skin irritation.

Eyes - Dust causes eye irritation.

Inhalation - Excessive inhalation causes respiratory tract and mucous membrane irritation.

Low hazard for usual industrial handling.

Ingestion - Ingestion of large amounts may cause gastrointestinal tract disturbances with nausea and possibly constipation. Expected to be a low hazard for usual industrial handling.

Chronic Potential Health Effects - Chronic ingestion may affect kidneys, and may cause hypocalcaemia with alkalosis.

12. ECOLOGICAL INFORMATION

Environmental Fate:

This material is not expected to significantly bioaccumulate.

Environmental Toxicity:

No information found.

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility.

Although not a listed as a hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements.

Processing, use or contamination of this product may change the waste management options.

Dispose of container and unused contents in accordance with national and local requirements.

14. TRANSPORT INFORMATION

Not regulated

15. REGULATION AND LEGISLATION

National Environmental Management: Air Quality Act, 39 of 2004 prescribes maximum allowable dust emissions

Mine Health and Safety Act, 29 of 1996 prescribes the personal protective equipment to be worn

Fertilisers, Farm Feeds, Agricultural Remedies and stock remedies Act, 36 of 1947

SANS 9001:2008 (ISO 9001:2008) – Quality Management Systems (ISBN 978-0-626-22214-7)

16. DISCLAIMER

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