

SAFETY DATA SHEET

CALCIUM OXIDE

April 2024

SECCIÓN 1. Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifiers

Product: Calcium oxid, CaO

N° CAS: 1305-78-8

1.2 Relevant identified uses of the substance or mixture

Uso recomendado del producto: siderurgia, minería, vidrio, metalúrgica y minería, papel, Industria química, cosmética, azúcar, curtidos, construcción y protección ambiental.

1.3 Details of the supplier of the safety data sheet

Company: Cementos del Plata S.A.

Adress: Ruta 98 Km25, CP. 33000- Treinta y Tres

Telephone: Oficinas en Planta Treinta y Tres – (+598) 44501058

E-mail: clientes@cemplata.com.uy

1.4 Emergency telephone

Dirección Nacional de Bomberos: 911

Centro de Información y Asesoramiento Toxicológico (CIAT): (+598)2 1722

SECCIÓN 2. Hazards identification

2.1 Classification of the substance or mixture

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

2.2 Label elements

Pictogram:



Signal word: Peligro

Hazard statements:

H315: Causes skin irritation.

H318: Causes serious eye damage

H335: May cause respiratory irritation

SAFETY DATA SHEET

CALCIUM OXIDE

April 2024

Precautionary statements

P261: Avoid breathing dust.

P264: Wash skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/ eye protection/ face protection.

P302 + P352: IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338EN: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical Name: Calcium Oxide.

Common Name and Synonyms: Quicklime, burnt lime, lime, calcium oxide.

Chemical Formula: CaO.

Molecular Weight: 56.08 g/mol.

CAS Number: 1305-78-8.

EC Number: 215-138-9.

Proportion: > 80%

SECCIÓN 4. First aid measures

4.1 Description of first-aid measures

General recomendations

Show this material safety data sheet to the doctor in attendance.

If Inhaled

Move the person to a ventilated area, expose them to fresh air.

In case of skin contact

Immediately remove all contaminated clothing. Rinse the skin with water or shower.

In Case of Eye Contact:

Rinse with plenty of water. Immediately call an ophthalmologist. Remove contact lenses. Pull back the eyelid to ensure that all lime dust has been removed. Do not rub the eyes.

If Swallowed:

Immediately drink water (maximum 2 glasses). Consult a doctor.

4.2 Descripción de los principales síntomas y efectos, agudos y retardados

Inhalation: Irritation of the gastrointestinal tract or respiratory tract. Bronchitis. Pulmonary respiratory congestion. Long-term inhalation exposure may cause permanent damage.

Skin Contact: Irritation (possibly severe). Severe burns. Dermatitis.

Eye Contact: Irritation, Severe burns. Ulcerations. Vision loss or risk of serious eye injuries.

Ingestion: Burns.

SAFETY DATA SHEET

CALCIUM OXIDE

April 2024

SECCIÓN 5. Firefighting measures

5.1 Extinguishing media

Appropriate extinguishing methods: Use extinguishing measures appropriate to the circumstances of the area and its surroundings such as ABC powder, foam. Inappropriate extinguishing methods: There are no limitations on extinguishing agents for this substance/mixture.

5.2 Special hazards arising from the substance or mixture

The nature of the decomposition products is unknown. Non-combustible. Possibility of hazardous vapor formation in the event of fire in the surroundings.

5.3 Advice for firefighters

Remaining in the risk area only with self-contained breathing apparatus independent of the environment. Skin protection by maintaining a safe distance and using appropriate protective clothing.

SECCIÓN 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not use water on spills of bulk material. Avoid inhaling dust. Avoid contact with the substance. Ensure proper ventilation. Evacuate the danger area, follow emergency procedures, consult with experts.

Individual protective equipment, see Section 8.

6.2 Environmental precautions

Do not allow the product to enter the sewer system. If this occurs, notify the appropriate authority.

6.3 Methods and materials for containment and cleaning up

Cover the sewers. Collect, contain, and vacuum spills. Observe possible material restrictions (see indications in sections 7 or 10). Collect dry and proceed with waste disposal. Avoid dust formation. Evacuate the area downwind from cleaning operations to minimize dust exposure. Store spilled materials in sealed and dry containers.

SECCIÓN 7. Handling and storage

7.1 Precautions for safe handling

Use recommended protective equipment. Ensure good ventilation. General hygiene measures recommendations: Wash hands before breaks and at the end of the workday. Keep food and beverages away. See precautions in section 2.2

7.2 Conditions for safe storage, including any incompatibilities Storage conditions

Due to its highly hygroscopic nature, it should be stored in dry areas, free from moisture and away from the weather to avoid risks from rain or flooding. The site should have good

SAFETY DATA SHEET

CALCIUM OXIDE

April 2024

ventilation. Incompatible materials: acids, strong oxidizing agents, halogens, fluorine, hydrogen

fluoride, carbon dioxide (CO₂), alcohols, water.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

SECCIÓN 8. Exposure controls/personal protection

8.1 Control parameters

Components with environmental exposure limit values for occupational exposure.

8.2 Exposure controls. Personal protective equipment

Eye/Face Protection: Use eye protection equipment tested and approved according to relevant government standards, such as NIOSH (USA) or EN 166 (EU). Safety goggles that fit snugly to the face contour.

Skin Protection:

Immersion: Material: Nitrile rubber or neoprene.

Splashes: Material: Nitrile rubber or neoprene.

Body Protection: Wear protective clothing with long sleeves.

Respiratory Protection: Necessary in the presence of dust. Use high-efficiency filter protection such as those specified in DIN EN 143, DIN 14387, P2 filter type.

SECCIÓN 9. Physical and chemical properties

Physical State: Solid.

Appearance-Color: White or grayish.

Flash Point: Non-flammable.

Autoignition Temperature: Not applicable.

Solubility in Water: Dissolves in water exothermically forming Calcium Hydroxide, Ca(OH)₂. The mixture with water has a pH between 12.5 and 13.

SECCIÓN 10. Stability and reactivity

10.1 Reactivity

Anhydrous material, hence unstable; it absorbs moisture at a high rate, expanding in size.

10.2 Chemical stability

The product is chemically stable under normal conditions (at ambient temperature).

10.3 Possibility of hazardous reactions

It reacts exothermically with water.

10.4 Conditions to avoid

SAFETY DATA SHEET

CALCIUM OXIDE

April 2024

Avoid moisture.

SECCIÓN 11. Toxicological information

Acute toxicity

Oral LD50 - Rat - Female - > 2,000 mg/kg (OECD Test Guidelines 425).

Inhalation LC50 - Rat - Males and Females - 4 hours - > 6.04 mg/l - dust/mist (OECD Test Guidelines 436).

Dermal: No data available

Skin Corrosion/Irritation

Skin - Rabbit Result: Severe skin irritation (OECD Test Guidelines 404).

Serious Eye Damage/Irritation:

Eyes - Rabbit Result: Risk of serious eye injury (OECD Test Guidelines 405).

Respiratory or Dermal Sensitization:

No data available.

Mutagenicity in Germ Cells

Test Type: Ames Test Experimental System: Escherichia coli/Salmonella typhimurium Metabolic Activation: with or without metabolic activation. Method: OECD Test Guidelines 471.

Result: Negative

Carcinogenicity:

No data available.

Reproductive Toxicity:

No data available.

Specific Target Organ Toxicity - Single Exposure:

Inhalation: May irritate the respiratory tract.

Specific Target Organ Toxicity - Repeated Exposure:

No data available.

Aspiration Hazard:

No data available.

SECCIÓN 12. Ecological information

The material increases the pH of water, posing risks to aquatic organisms if not dosed in a controlled manner (Quicklime is used in water treatment for drinking water, and applied in agriculture as a natural pH regulator).

SECCIÓN 13. Disposal considerations

Dispose of the waste in accordance with applicable national and municipal regulations.

SAFETY DATA SHEET

CALCIUM OXIDE

April 2024

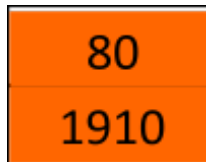
SECCIÓN 14. Transport information

According to the Agreement for the Facilitation of the Transport of Dangerous Goods in MERCOSUR:

Primary Hazard: Non-dangerous goods.

Risk Number: 80 (corrosive).

UN Number: 1910.



SECCIÓN 15. Regulatory information

The safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECCIÓN 16. Other information

The information provided above is considered accurate but is not intended to be exhaustive and should be used solely as guidance. The information contained in this document is based on the current state of our knowledge and is applicable to appropriate safety precautions for the product.