

Product: Ekosil

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1. Identification

Product identifier: Ekosil

Recommended use of the chemical: Agriculture and fertilizer

Identification Code: 0016

Supplier's name: Mineração Curimbaba Ltda – Estação Bauxita

Address: Estrada Bauxita, s/ nº - Bortolan Sul

Complement: Poços de Caldas/MG - Brasil

Supplier's phone number: +55 35 3729 1800

Emergency phone number: Sublime Technologies - Hartwich Marx +27 82 320 8572

2. Hazard identification

Classification of the substance or mixture: Eye damage/irritation: Category 2A - Specific target organ toxicity (single exposure): Category 3

GHS labelling



Signal Word: Warning

Hazard Statement: H319 - Causes serious eye irritation . H335 - May cause respiratory irritation.

Precautionary statements:

- **General:** P103 - Read label before use.
- **Prevention:** P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area.
- **Response:** P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice/attention. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor if you feel unwell.
- **Storage:** P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
- **Disposal:** P501 - Dispose of contents/container in accordance with local legislation.

Other hazards which do not result in classification: May cause eye redness, coughing and sneezing, due to mechanical effects.

Other information: This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

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3. Composition/Information on ingredients

Product Type: Substance**Common chemical name or technical name:** Feldspar**Synonym:** Phonolite**CAS N°:** 68476-25-5**This substance does not contain impurities that contribute to its hazard.**

4. First-aid measures

First-aid measures

- **Inhalation:** Remove the victim to fresh air and keep at rest in a comfortable position for breathing. Get medical attention, if symptoms appear. Take this SDS.
- **Skin contact:** Gently wash the contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Wash clothing and shoes before reuse. Get medical attention if symptoms appear. Take this SDS.
- **Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical attention. Take this SDS.
- **Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If swallowed, seek medical advice immediately. Take this SDS.

Most important symptoms/effects, acute and delayed: Causes serious eye irritation. May cause respiratory irritation. May cause eye redness, coughing and sneezing, due to mechanical effects.

Indication of immediate medical attention and special treatment: Symptomatic treatment.

5. Fire-fighting measures

Suitable extinguishing media: Use water spray, dry chemical, or carbon dioxide.

Unsuitable extinguishing media: Do not use direct water jet.

Specific hazards arising from the chemical: Non-flammable product. The combustion of the chemical or its containers may form toxic and irritating gases such as carbon monoxide and carbon dioxide.

Special protective actions for fire-fighters: Self-contained breathing apparatus (SCBA) and protective equipment are recommended. Containers and tanks involved in the fire should be cooled with water mist.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- **For non-emergency personnel:** Preemptively isolate from ignition sources. Do not smoke. Avoid contact with the product. If necessary, use personal protective equipment as described in Section 8.

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- **For emergency responders:** Evacuate the area. Wear full protective equipment (safety glasses, gloves, uniform or apron, closed shoes, and a respirator with filters for particulate matter). Preventively isolate the leakage from ignition sources.

Environmental precautions: Prevent entry into waterways, sewers, basements, or confined spaces.

Methods and materials for containment: Evacuate the area. Keep away unauthorized personnel. Stop the spill, if it is safe.

Area isolation: As an immediate precautionary measure, isolate spill or leak area in all directions, at least, 50 meters (164,02 feet).

Methods and materials for cleaning up: Spilled material may make the floor slippery. Collect the product with a clean shovel or another tool that does not disperse it. Place the material in suitable, pre-labeled containers and move them to a safe location. For disposal, follow local regulations as described in Section 13.

7. Handling and storage

Precautions for safe handling

- **Prevention of workers exposure:** Handle the product according to established safety standards and use the PPE indicated in Section 8. Work in a well-ventilated area or use local exhaust/general ventilation. Avoid the formation of dust and mists. Minimize exposure to the product.
- **Fire and explosion:** The product is not expected to present a fire or explosion hazard. Keep ignition sources away. No smoking.
- **Precautions for safe handling:** Handle the product according to established safety rules and use the PPE indicated in Section 8. Avoid contact with skin and eyes.
- **Hygiene measures**
 - **Suitable:** Wash hands and other exposed areas thoroughly after handling and before eating, drinking, or using the restroom. Contaminated clothing must be changed and washed before reuse.
 - **Unsuitable:** Eating, drinking or smoking in the workplace.

Conditions for safe storage

- **Conditions for safe storage:** Store in a cool, dry, well-ventilated place at room temperature. Keep the container closed. Avoid high temperatures and humidity. Do not exceed a maximum stacking of four pallets, 1,000kg big bags, or six 500kg big bags. Addition of stabilizers or antioxidants is not necessary to ensure product durability.
- **Conditions to avoid including incompatibilities:** Not available.
- **Packaging materials**
 - **Suitable:** Store in packaging similar to the original.
 - **Unsuitable:** Not available.

Other information: Not available.

8. Exposure controls/personal protection

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Control parameters

- **Occupational exposure limits:** This product has no occupational exposure limits established according to South African Exposure Limits (OELs) and ACGIH.
- **Biological indicators values:** Not available.
- **Other limits and values:** Not available.

Appropriate engineering controls: Ensure direct mechanical ventilation and an exhaust system to the outside environment. These measures help reduce exposure to the product and maintain the atmospheric concentrations of its constituents below the indicated occupational exposure limits. Keep an emergency shower and eyewash station near the workplace.

Individual protection measures, such as personal protective equipment

- **Eye/face protection:** Safety glasses with side protection
- **Skin protection:** Protective clothing (uniform or apron) and closed-toe shoes.
- **Respiratory protection:** The use of a respiratory protective mask with a filter for particulate matter (e.g., P2 or P3) is recommended.
- **Hands protection:** Wear protective gloves (e.g., nitrile rubber, PVC, rubber, or neoprene).
- **Thermal hazards:** The product does not present thermal hazards.

Other information: Not available.

9. Physical and chemical properties

- **Appearance**
Physical state: Solid; **Form:** Powder; **Color:** Grey
- **Odour:** Not available
- **Odour threshold:** Not available
- **pH:** Not available
- **Melting point/freezing point:** 1165 - 1600 °C
- **Initial boiling point:** Not available
- **Boiling range:** Not available
- **Flash point:** Not available
- **Evaporation rate:** Not available
- **Flammability (solid, gas):** Non- flammable
- **Lower flammability or explosive limits:** Not available
- **Upper flammability or explosive limits:** Not available
- **Vapour pressure:** Not available
- **Vapour density:** Not available
- **Relative density:** Not available
- **Solubility(ies):** Insoluble in water (< 0.1% (22 °C)). Citric acid 2% (1% at dilution 1:100)

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- **Partition coefficient: n-octanol/water:** Not available
- **Auto-ignition temperature:** Not available
- **Decomposition temperature:** Not available
- **Viscosity:** Not available
- **Additional information:** Bulk density: 0.77 - 1.00 g/cm³

10. Stability and reactivity

Chemical stability: Stable product under normal conditions

Reactivity: Under normal conditions of use, storage, and transportation, the material should be non-reactive.

Possibility of hazardous reactions: No hazardous reactions are known with the product.

Conditions to avoid: Avoid high temperatures and humidity.

Incompatible materials: No incompatible materials are known.

Hazardous decomposition products: None known.

11. Toxicological information

Acute toxicity: The product has not been classified for this hazard according to GHS criteria.

Skin corrosion/irritation: The product has not been classified for this hazard according to GHS criteria.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: The product has not been classified for this hazard according to GHS criteria.

Germ cell mutagenicity: The product has not been classified for this hazard according to GHS criteria.

Carcinogenicity: The product has not been classified for this hazard according to GHS criteria.

Reproductive toxicity: The product has not been classified for this hazard according to GHS criteria.

STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: The product has not been classified for this hazard according to GHS criteria.

Aspiration hazard: The product has not been classified for this hazard according to GHS criteria.

Additional information: May cause eye redness, coughing and sneezing, due to mechanical effects.

12. Ecological information

Toxicity: The product has not been classified for this hazard according to GHS criteria.

Persistence and degradability: Due to the absence of data, the product is expected to be persistent and is not considered rapidly degradable.

Bio accumulative potential: Due to the absence of data, the product is not expected to have bioaccumulative potential in aquatic organisms.

Mobility in soil: The product is solid, and low soil mobility is expected.

Other adverse effects: Not available.

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13. Disposal considerations

Disposal methods

- **Product:** Keep the product in its original packaging, properly closed. Dispose of contents and container in accordance with local or national regulations.
- **Used package:** Do not reuse empty containers. Dispose of them in accordance with local or national regulations.

14. Transport information

National and international regulations:

Land Transport:

Technical name: FELDSPAR

Additional information: The characteristics of the product does not meet the official criteria of dangerous goods for purposes of transportation.

15. Regulatory information

Safety, health and environmental regulations specific for the product:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. - Handling, labelling and Safety Data Sheets for hazardous and GHS classified substances and mixtures

SANS 10234: 2008 – Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Occupational Exposure Limits. Hazardous Substances Act, 1973 (Act No.15 of 1973) - Requirements on the prohibition and control of the importation, manufacture, sale, use, operation, application, modification, disposal or dumping of hazardous substances

Occupational Health and Safety Act No. 85 of 1993 - Occupational Health and Safety Standards for employers and users working with and around hazardous chemical substances

National Road Traffic Act, 1996 (ACT NO. 93 of 1996). - The identification and classification of dangerous goods for transport by road and rail modes

16. Other information

Other information that does not belong in other sections:

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This Safety Data Sheet (SDS) has been prepared based on current knowledge about chemicals and provides information about protection, safety, health and environment. It is warned that any chemical handling requires prior knowledge of its hazards by the user. The user company is responsible to promote the training of its employees about the potential product risks.

References: [ECHA] EUROPEAN CHEMICAL AGENCY. Available in: <http://echa.europa.eu/>
[HSNO] NEW ZEALAND HSNO Chemical Classification and Information Database (CCID)
[OSHA] OSHA'S Hazard Communication. Available in: <https://www.osha.gov/dsg/hazcom/>
[GHS] Globally Harmonized System of Classification and Labelling of Chemicals

Subtitles and abbreviations: ACGIH - American Conference of Governamental Industrial, BCF - Bioconcentration factor, CAS - Chemical Abstracts Service
OELs - Occupational Exposure Limits