

**Product:** Córindon Artificial Preto SinterBall Jat/Óxido de Alumínio Sinterizado GRIT

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## 1. Identification

**Product identifier:** Córindon Artificial Preto SinterBall Jat/Óxido de Alumínio Sinterizado GRIT**Recommended use of the chemical:** Blasting **Identification****Code:** 0004**Supplier's name:** MINERAÇÃO CURIMBABA**Address:** Rodovia Poços de Caldas/Caldas, Km 10 – Usina Campo do Meio**Complement:** Poços de Caldas/MG – Brasil CEP 37701-970**Supplier's phone number:** (35) 2107-8000**Emergency phone number:** (35) 99839-7449

## 2. Hazard identification

**Classification of the substance or mixture:** Chemical not classified as hazardous according to GHS.**Precautionary recommendations:** Wash your hands after handling the product. It is recommended to use appropriate PPE when handling the product. Get product information before handling. In case of emergency, proceed as indicated by SDS**Other information:** Not available

## 3. Composition/Information on ingredients

**Product Type:** Substance**Common chemical name or technical name:** Bauxite, calcined**Synonym:** Bauxite, sintered; Bauxite (Al<sub>2</sub>O<sub>3</sub>.xH<sub>2</sub>O), calcined**CAS N°:** 92797-42-7

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 MSDS
- **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 MSDS
- **Eye contact:** Rinse carefully with water for various minutes. Remove contact lenses, if present and easy to do. In case of eye irritation, get medical attention. Take this MSDS
- **Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If swallowed, consult a doctor. Contact a POISON CENTER or a doctor, if you feel unwell. Take this MSDS

**Most important symptoms/effects, acute and delayed:** Chemical not classified as hazardous according to GHS

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**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 dioxide**Special protective actions for fire-fighters:** Self-contained breathing apparatus (SCBA) and protective equipment is 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
- **For emergency responders:** Evacuate the area. Wear full protective equipment (safety glasses and gloves, uniform or apron, closed shoes, and respiratory mask with filters against particulate material).  
Isolate the leakage preventively from ignition sources

**Environmental precautions:** Prevent entry into waterways, sewers, basements, or confined areas**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 can leave the floor slippery. Collect the product with a clean shovel or another instrument that does not disperse the product. Put the material in suitable and previously identified containers and remove them to a safe place. For disposal, proceed according to the local legislation as described in section 13

## 7. Handling and storage

### Precautions for safe handling

- **Prevention of workers exposure:** Handle the product following established safety standards and use the PPE indicated in section 8. Handle in a ventilated area or with a general ventilation/local exhaust system. Avoid formation of particles and mists. Avoid exposure to the product
- **Fire and explosion:** It is not expected that the product to present a fire or explosion hazard. Keep ignition sources away - No smoking
- **Precautions for safe handling:** Handle the product according to the established safety rules and use the PPE indicated in section 8. Avoid contact with skin and eyes
- **Hygiene measures**
- **Suitable:** Wash hands et al thoroughly after handling and before eating, drinking, or going to the bathroom. Contaminated clothing must be changed and washed before re-use

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- **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 container tightly closed. Avoid high temperatures. Ensure the recommended minimum distances between stacks/pallets. Respect the maximum stacking of three pallets or big bags
- **Conditions to avoid including incompatibilities:** Not known incompatible materials
- **Packaging materials**
- **Suitable:** Polypropylene big bags or cardboard bags
- **Unsuitable:** Not available

**Other information:** Not available**8. Exposure controls/personal protection****Control parameters**

- **Occupational exposure limits:** No occupational exposure limit values exist according to NIOSH, OSHA, ACGIH, or WES
- **Biological indicators values:** Not available
- **Other limits and values:** Not available

**Appropriate engineering controls:** Ensure direct mechanical ventilation and exhaust system to the outside environment. These measures help reducing exposure to the product and maintaining atmospheric concentrations, of the constituents of the product, below 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:** Wear protective clothing (uniform or apron) and closed shoes
- **Respiratory protection:** The use respiratory protective mask with a filter against particulate material (e.g. P2 or P3) is recommended
- **Hands protection:** Wear protective gloves - e.g., nitrile rubber, PVC, rubber, or neoprene
- **Thermal hazards:** It does not present thermal hazards

**Other information:** Not available**9. Physical and chemical properties**

- **Appearance**  
**Physical state:** Solid; **Form:** Spherical/rounded grains; **Color:** Black
- **Odour:** Not available
- **Odour threshold:** Not available
- **pH:** Not available

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- **Melting point/freezing point:** Not available
- **Initial boiling point:** Not available
- **Boiling range:** Not available
- **Flash point:** Not available
- **Evaporation rate:** Not available
- **Flammability (solid, gas):** Nonflammable
- **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. Acid solubility: 6.5%
- **Partition coefficient: n-octanol/water:** Not available
- **Auto-ignition temperature:** Not available
- **Decomposition temperature:** Not available
- **Viscosity:** Not available
- **Additional information:** Bulk density: 1.75 - 2.15 g/cm<sup>3</sup>

## 10. Stability and reactivity

**Chemical stability:** Product not reactive

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

**Possibility of hazardous reactions:** There are not known hazardous reactions with the product

**Conditions to avoid:** High temperatures

**Incompatible materials:** There are not known incompatible materials

**Hazardous decomposition products:** None known

## 11. Toxicological information

**Acute toxicity:** The product has not been classified for this hazard under GHS criteria

**Skin corrosion/irritation:** The product has not been classified for this hazard under GHS criteria

**Serious eye damage/irritation:** The product has not been classified for this hazard under GHS criteria

**Respiratory or skin sensitization:** The product has not been classified for this hazard under GHS criteria

**Germ cell mutagenicity:** The product has not been classified for this hazard under GHS criteria

**Carcinogenicity:** The product has not been classified for this hazard under GHS criteria

**Reproductive toxicity:** The product has not been classified for this hazard under GHS criteria

**STOT-single exposure:** The product has not been classified for this hazard under GHS criteria

**STOT-repeated exposure:** The product has not been classified for this hazard under GHS criteria

**Aspiration hazard:** The product has not been classified for this hazard under GHS criteria

**Additional information:** Not available

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## 12. Ecological information

**Toxicity:** The product has not been classified for this hazard under GHS criteria. Bauxite, calcined (CAS 92797-42-7) - Fish - LC50 (Scophthalmus maximus juvenile /96h): >100 mg/L. Diatoms - EC50 (Phaeodactylum tricornutum /72h): > 100 mg/L

**Persistence and degradability:** Due to the absence of data, it is expected that the product presents persistence, and it is not considered rapidly degradable

**Bio accumulative potential:** Due to the absence of data, it is not expected that the product presents bio accumulative potential in aquatic organisms

**Mobility in soil:** Solid product, low soil mobility is expected

**Other adverse effects:** None known

## 13. Disposal considerations

### Disposal methods

- **Product:** Keep the product remains in its original packing and properly closed. Dispose of contents/container in accordance with local/state regulations
- **Used package:** Do not reuse empty containers. Dispose of in accordance with local/state regulations

## 14. Transport information

### National and international regulations:

#### Land Transport:

**Technical name:** BAUXITE, CALCINED

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

**Additional Regulation:** DOT - U.S. DEPARTMENT OF TRANSPORTATION

## 15. Regulatory information

### Safety, health and environmental regulations specific for the product:

- Hazardous Substances and New Organisms Act 1996
- Health and Safety at Work Act 2015 (HSWA)
- Health and Safety at Work (General Risk And Workplace Management) Regulations 2016
- System of Classification and Labelling of Chemicals 7 (GHS7)

## 16. Other information

### Other information that does not belong in other sections:

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

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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/>  
Work Health and Safety (General) Regulations 2022 Available: <https://www.safeworkaustralia.gov.au/>  
[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  
ADOPTED NATIONAL EXPOSURE STANDARDS FOR ATMOSPHERIC CONTAMINANTS IN THE OCCUPATIONAL ENVIRONMENT [NOHSC:1003(1995)]  
AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®)

**Subtitles and abbreviations:** ACGIH - American Conference of Governamental Industrial, BCF -

Bioconcentration factor, CAS - Chemical Abstracts Service

DNEL: Derived No-effect Level

EC: European Commission

EC50: Effective Concentration 50%

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted No Effect Concentration TWA:  
Time Weight Average

vPvB: very Persistent and very Bioaccumulative