1. Identification

Product identifier: Córindon Artificial Ativado Especial; Special Activated Artificial Corindon
Recommended use of the chemical: Clarification and regeneration of oils
Identification Code: 0023
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 (Al2O3.xH2O), 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. Take this MSDS

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

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:** 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 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

- **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. It is not necessary to add stabilizers and antioxidants to ensure product durability
- **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 exposure standard allocated according to NOHSC, OSHA, ACGIH, or NIOSH
- **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:** Angular grains**; Color:** Red
- **Odour:** Not available
- **Odour threshold:** Not available
- **pH:** Not available

- **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):** 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
- **Partition coefficient: n-octanol/water:** Not available
- **Auto-ignition temperature:** Not available
- **Decomposition temperature:** Not available
- **Viscosity:** Not available
- **Additional information:** Bulk density: 0.75 - 1.05 g/cm3

10. Stability and reactivity

Chemical stability: Stable product under normal conditions of temperature and pressure
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

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. Diatomons - 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:

Work Health and Safety (General) Regulations 2022

- National Occupational Health and Safety Commission, 'National Code of Practice for the Control of Workplace Hazardous Substances' [NOHSC:2007(1994)] in Control of Workplace Hazardous Substances: National Model Regulations and National Code of Practice, Australian Government Publishing Service, Canberra, 1994.
- National Occupational Health and Safety Commission, National Code of Practice for Labelling Hazardous Substances and Dangerous Goods in the Workplace [NOHSC:2012(1994)], National Occupational Health and Safety Commission, Canberra, 2002. National Occupational Health and Safety Commission, 'National Model Regulations for the Control of Scheduled Carcinogenic Substances [NOHSC:1011(1995)]', in Control of Workplace Hazardous Substances Part 2 – Scheduled Carcinogenic Substances: National Model Regulations and National Code of Practice, Australian Government Publishing Service, Canberra, 1995.

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 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