

Section 1. Product and Company Identification

Product Name Calcium Citrate Malate 23%
CAS Number 120250-12-6

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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

Combustible dusts
Skin corrosion/irritation - Category 2
Serious eye damage/eye irritation - Category 2a

GHS Label Elements

Pictograms:



Signal word: WARNING!

Hazard and precautionary statements

Hazard statements

Product may form combustible dust concentrations in air.
Causes serious eye irritation.
Causes skin irritation.

Precautionary statements

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention: Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after handling.

Response: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage: Store in a cool/well -ventilated place.

Disposal: Dispose of water and residues in accordance with local authority requirements.

Supplemental label elements: Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.

Hazard(s) not otherwise classified (HNOC): Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

OSHA/HCS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3. Composition / Information on Ingredients

Common Name Calcium Citrate Malate 23%
CAS Number 120250-12-6

COMPONENT	CAS NUMBER	CONCENTRATION
Calcium Citrate Malate 23%	120250-12-6	60 - 100%

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact: Immediate flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact: Wash the contaminated area with soap and water. Remove contaminated clothing and was before reuse. If irritation, get medical attention.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small amount of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact: No know significant effects or critical hazards

Ingestion: No known significant effects or critical hazards

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following: irritation and redness.

Inhalation: Adverse symptoms may include the following: respiratory tract irritation and coughing.

Skin contact: No known significant effects or critical hazards

Ingestion: No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Foam, extinguishing powder, carbon dioxide (CO₂), water fog. In case of fire, cool endangered containers with water fog.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: Fine dust clouds may form explosive mixtures with air.

Hazardous thermal decomposition products

Products may include the following materials: carbon dioxide; carbon monoxide; halogenated compounds; metal oxide/oxides

Special protective actions for fire-fighters: No special protection is required.

Special protective equipment Instructions for fire-fighters: Fire-fighters wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.

Section 6. Accidental Release Measures
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Personal precautions, protective equipment and emergency procedures

For non-emergency Personnel: Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up for emergency responders

Spill: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled

waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Protective measures: Put on appropriate personal protective equipment. Avoid breathing dust. Wear appropriate personal protective equipment. Ensure adequate ventilation. Observe good industrial hygiene practices.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls / Personal Protection

Control parameters

Occupational exposure limits

Threshold Limit Values: No data available

Time Weighted Average: TLV: Not available

Appropriate engineering controls: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with requirements of environmental protection registration, Income cases, fumes scrubbers, filters or engineering modification to the process equipment's will be necessary to reduce emissions to acceptable levels.

Individual protections measures

Hygiene measures: Wash hand forearm and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of working period. Appropriate techniques should be used to remove partially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dust. If contact is possible, the following protections should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment or the body should be selected based on the task being performed and risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measure should be selected based on the task being performed and risks involved and should be approved by a specialist before handling this product.

Section 9. Physical and Chemical Properties

Physical state: Solid

Form: Powder

Color: White to off-white

Odor: Characteristic

pH: 2.0 - 9.0

Vapor pressure: Not available

Vapor density: Not available

Boiling point: Not available

Melting point: Not available

Solubility: Not available

Density (Bulk): Not available

Flash point (method): Not available

Ignition temperature: Not available

Evaporation rate: Not available

Flammability limits (solid, gas): Not available

Upper/lower flammability or explosive limits: Not available

Relative density: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: Not available

Section 10. Stability and Reactivity

Reactivity: This product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Avoid the creation of dust when handling and avoid all possible sources of

ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. And exposure to moist air or water.

Incompatible materials: Avoid contacts with strong oxidizing agent.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous reactions: Hazardous polymerization will not occur.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity: Expect to be a low hazard for usual industrial or commercial handling by trained personnel.

LD50/LC50

LD50 (Acute, oral, rat): No data available

LC50: No data available

Skin irritation/corrosion: Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye: Direct contact with eyes may cause temporary irritation.

Irritation - Respiratory sensitization: No data available.

Skin sensitization: No data available.

Germ cell mutagenicity No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Teratogenicity: No data available.

Specific target organ toxicity (single exposure): No data available.

Specific target organ toxicity (repeated exposure): No data available.

Aspiration hazard: No data available.

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation, Ingestion.

Potential acute health effects

Eye contact: Exposure to air borne concentrations above statutory or recommended exposure limits may cause irritation to the eyes.

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact: No known significant effects or critical hazards

Ingestion: No known significant effects or critical hazards

Symptoms relate to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following: irritation and redness.

Inhalation: Adverse symptoms may include the following: respiratory tract irritation and coughing.

Skin contact: No known significant effects or critical hazards.

Ingestion: Over-ingestion may cause gastrointestinal update with nausea, vomiting, and diarrhea, garlic like odor of the breath and sweat, metallic taste.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

General: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: No data available.

Section 12. Ecological Information

Toxicity: There is no data available.

Ecotoxicity: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: There is not data available.

Mobility in soil: Not available.

Other adverse effects: No other adverse environmental effects.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US): Not regulated

IMDG: Not regulated

IATA: Not regulated



Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II or MARPOL 73/78 and the IBC code: Not available.

Section 15. Regulatory Information

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined.

United States inventory (TSCA 8b): Not determined.

Clean Air Act Section 112 (b) hazardous Air Pollutants (HAPs): Not listed.

Clean Air Act Section 602 Class I Substances: Not listed.

Clean Air Act Section 602 Class II Substances: Not listed.

DEA List I Chemicals (Precursor Chemicals): Not listed.

DEA List II Chemicals (Essential Chemicals): Not listed.

SARA 302/304

Composition/information on ingredients: Calcium Citrate Malate

SARA 304 RQ: Not applicable.

SARA 311/312

Classification: Not applicable.

Composition/information on ingredients: No products were found.

State Regulations

Massachusetts: Not listed.

New York: Not listed.

New Jersey: Not listed.

Pennsylvania: Not listed.

California Prop. 65: This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International regulations

Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined.

Japan inventory: Not determined.

Korea inventory: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention

List Schedule I Chemicals: Not listed.

List Schedule II Chemicals: Not listed.

List Schedule III Chemicals: Not listed.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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