1 Identification
Product identifier
Product name: Calcium oxalate monohydrate
Stock number: 32430
CAS Number: 5794-28-5
EC number: 209-260-1
Index number: 607-007-00-3

2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

GHS07
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin.

Hazard(s) not otherwise classified No information known.

Label elements
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

Hazard pictograms

GHS07

Signal word Warning

Hazard statements
H302+H312 Harmful if swallowed or in contact with skin.

Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.
P312 Call a POISON CENTER/doctor/.../if you feel unwell.
P363 Wash contaminated clothing before reuse.
P322 Specific measures (see on this label).
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS classification
D1B - Toxic material causing immediate and serious toxic effects

Classification system
HMIS ratings (scale 0-4)
Health (acute effects) = 2
Flammability = 1
Physical Hazard = 1

Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances
CAS# Description: 5794-28-5 Calcium oxalate monohydrate
Identification number(s):
EC number: 209-260-1
Index number: 607-007-00-3

4 First-aid measures

Description of first aid measures
After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice.

After skin contact
Immediately wash with water and soap and rinse thoroughly.
5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents: Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:
Carbon monoxide and carbon dioxide
Calcium oxide

Advice for firefighters
Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.

Environmental precautions: Do not allow product to reach sewage system or any water course.
Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13.
Prevention of secondary hazards: No special measures required.

Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

Handling
Precautions for safe handling
Handle under dry protective gas.
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.

Information about protection against explosions and fires: No information known.

Conditions for safe storage, including any incompatibilities

Storage
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility:
Store away from water/moisture.
Store away from oxidizing agents.
Further information about storage conditions:
Store under dry inert gas.
This product is hygroscopic.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Further information about storage conditions:
Store under dry inert gas.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters
Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: No data

Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Maintain an ergonomically appropriate working environment.

Breathing equipment: Use suitable respirator when high concentrations are present.
Recommended filter device for short term use:
Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.

Protection of hands:
Impervious gloves
Check protective gloves prior to each use for their proper condition.
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Material of gloves: Nitrile rubber, NBR
Penetration time of glove material (in minutes) Not determined

Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General information
Appearance:
Form: Powder or lump
Color: White
### 10 Stability and reactivity

**Reactivity**
- No information known.

**Chemical stability**
- Stable under recommended storage conditions.

**Thermal decomposition / conditions to be avoided**
- Decomposition will not occur if used and stored according to specifications.

**Possibility of hazardous reactions**
- Reacts with strong oxidizing agents

**Conditions to avoid**
- No further relevant information available.

**Incompatible materials:**
- Water/moisture
- Oxidizing agents

**Hazardous decomposition products:**
- Carbon monoxide and carbon dioxide
- Calcium oxide

### 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**
- Harmful in contact with skin.
- Harmful if swallowed.
- Danger through skin absorption.

**LD/LC50 values that are relevant for classification:**
- No data

**Skin irritation or corrosion:**
- May cause irritation

**Eye irritation or corrosion:**
- May cause irritation

**Sensitization:**
- No sensitizing effects known.

**Germ cell mutagenicity:**
- No effects known.

**Carcinogenicity:**
- No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

**Reproductive toxicity:**
- No effects known.

**Specific target organ system toxicity - repeated exposure:**
- No effects known.

**Specific target organ system toxicity - single exposure:**
- No effects known.

**Aspiration hazard:**
- No effects known.

**Subacute to chronic toxicity:**
- No effects known.

**Additional toxicological information:**
- To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

### 12 Ecological information

**Toxicity**
- No further relevant information available.

**Aquatic toxicity:**
- No further relevant information available.

**Biocumulative potential**
- No further relevant information available.

**Mobility in soil**
- No further relevant information available.

**Additional ecological information:**

**General notes:**
- Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.
- Avoid transfer into the environment.
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- Other adverse effects:
  - No further relevant information available.

### 13 Disposal considerations

**Waste treatment methods**

**Recommendation**
- Consult state, local or national regulations to ensure proper disposal.

**Uncleaned packagings**

**Recommendation**
- Disposal must be made according to official regulations.

### 14 Transport information

**UN-Number**
- UN3288

**DOT, IMDG, IATA**
- UN3288

**UN proper shipping name**
- Toxic solid, inorganic, n.o.s. (Calcium oxalate monohydrate)

**DOT**
- Toxic solid, inorganic, n.o.s. (Calcium oxalate monohydrate)
### Transport hazard class(es)

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<td>Toxic substances.</td>
<td>6.1</td>
<td>(T5) Toxic substances</td>
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</tbody>
</table>

### Environmental hazards:
- Not applicable.

### Special precautions for user

**Warning:** Toxic substances

**EMS Number:** F-A-S-A

### Transport/Additional information:

**DOT**
- Marine Pollutant (DOT): No

**UN "Model Regulation":**
- UN3288, Toxic solid, inorganic, n.o.s. (Calcium oxalate monohydrate), 6.1, III

### 15 Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

**GHS label elements** The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

**GHS pictograms**

![GHS07]

**Signal word** Warning

**Hazard statements**
- H302+H312 Harmful if swallowed or in contact with skin.

**Precautionary statements**
- **P280** Wear protective gloves/protective clothing/eye protection/face protection.
- **P301+P312** IF SWALLOWED: Call a POISON CENTER/doctor/…/if you feel unwell.
- **P312** Call a POISON CENTER/doctor/…/if you feel unwell.
- **P363** Wash contaminated clothing before reuse.
- **P322** Specific measures (see on this label).
- **P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

#### National regulations

- All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
- All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).
- **SARA Section 313 (specific toxic chemical listings)** Substance is not listed.
- **California Proposition 65**
  - Prop 65 - Chemicals known to cause cancer Substance is not listed.
  - Prop 65 - Developmental toxicity, female Substance is not listed.
  - Prop 65 - Developmental toxicity, male Substance is not listed.

#### Information about limitation of use:

- **For use only by technically qualified individuals.**

#### Other regulations, limitations and prohibitive regulations

- **Substance of Very High Concern (SVHC)** according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
- **The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.** Substance is not listed.

#### Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

### 16 Other information

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### Department issuing SDS: Global Marketing Department

**Date of preparation / last revision** 11/23/2015 / -