

Safety Data Sheet AKC170 Date of issue: 06/08/2015 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# **Product identifier**

Product form : Substance Physical state : Solid

Substance name : CALCIUM 2,4-PENTANEDIONATE dihydrate, 95%

Product code : AKC170

Formula : C10H14CaO4·2H2O

: CALCIUM ACETYLACETONATE; CALCIUM, BIS(2,4-PENTANEDIONATO-O,O) Synonyms

Chemical family : METAL COMPOUND

# Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Chemical intermediate

For research and industrial use only

# Details of the supplier of the safety data sheet

# **GELEST, INC.**

11 East Steel Road Morrisville, PA 19067

USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

# **Emergency telephone number**

**Emergency number** : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

# **SECTION 2: Hazards identification**

# Classification of the substance or mixture

# Classification (GHS-US)

Acute Tox. 4 (Oral) H302 Eye Irrit. 2A H319

Full text of H-phrases: see section 16

#### 2.2. Label elements

# **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed

H319 - Causes serious eye irritation

Precautionary statements (GHS-US) P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P330 - Rinse mouth

P301+P312 - If swallowed: Call a doctor if you feel unwell

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 P501 - Dispose of contents/container to licensed waste disposal facility.

# Other hazards

No additional information available

# **Unknown acute toxicity (GHS US)**

No data available

# **SECTION 3: Composition/information on ingredients**

# **Substance**

Substance type : Mono-constituent

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Name : CALCIUM 2,4-PENTANEDIONATE dihydrate, 95%

CAS No : 19372-44-2 EC no : 243-001-3

| Name                                  | Product identifier  | %    | Classification (GHS-US)   |
|---------------------------------------|---------------------|------|---------------------------|
| Calcium, bis(2,4-pentanedionato-O,O') | (CAS No) 19372-44-2 | > 95 | Acute Tox. 4 (Oral), H302 |
|                                       |                     |      | Eye Irrit. 2A, H319       |

## 3.2. Mixture

Not applicable

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek

medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Harmful if swallowed.

# 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# SECTION 5: Firefighting measures

# 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

5.3. Advice for firefighters

Firefighting instructions : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid contact with skin and eyes. Do not breathe dust.

# SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

# 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

# 6.2. Environmental precautions

Prevent entry to sewers and public waters.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

# 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe dust. Provide local exhaust or general room

ventilation to minimize exposure to dust. Avoid dust formation.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

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# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Incompatible materials : Carbon dioxide. Water.

Storage area : Store in a well-ventilated place. Store away from heat.

## 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

No additional information available

# 8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

Eye protection : Chemical goggles. Contact lenses should not be worn.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder.

Molecular mass : 238.30/274.33

Color : Off-white.

Odor No data available Odor threshold No data available Refractive index No data available No data available pΗ Relative evaporation rate (butyl acetate=1) No data available : 175 °C decomposes Melting point Freezing point No data available **Boiling point** : No data available

Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available

Relative density < 1 VOC content : < 3 % Solubility : Water: 11.9 g/l Log Pow : No data available Log Kow No data available Viscosity, kinematic No data available Viscosity, dynamic No data available Explosive properties No data available Oxidizing properties No data available Explosion limits : No data available

# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No additional information available

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## 10.2. **Chemical stability**

Stable.

#### 10.3. Possibility of hazardous reactions

Material decomposes slowly in contact with air by reaction with water and carbon dioxide.

# **Conditions to avoid**

Heat. Open flame. Sparks.

#### Incompatible materials 10.5.

Carbon dioxide. Water.

#### **Hazardous decomposition products** 10.6.

Organic acid vapors. Calcium oxide fumes.

# SECTION 11: Toxicological information

# Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

| CALCIUM 2,4-PENTANEDIONATE dihydrate, 95% (19372-44-2) |                            |  |  |  |
|--|----------------------------|--|--|--|
| ATE US (oral) 1315.789 mg/kg body weight               |                            |  |  |  |
| Calcium, bis(2,4-pentanedionato-O,O') (19372-44-2)     |                            |  |  |  |
| LD50 oral rat  | 1250 mg/kg                 |  |  |  |
| ATE US (oral)  | 1250.000 mg/kg body weight |  |  |  |

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified Not classified Reproductive toxicity Specific target organ toxicity (single exposure) Not classified Specific target organ toxicity (repeated Not classified

exposure)

Aspiration hazard Not classified

Symptoms/injuries after inhalation May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact May cause skin irritation. Symptoms/injuries after eye contact Causes serious eve irritation. Symptoms/injuries after ingestion : Harmful if swallowed. Reason for classification : Expert judgment

# **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

No additional information available

# Persistence and degradability

No additional information available

### 12.3. **Bioaccumulative potential**

No additional information available

## 12.4. Mobility in soil

No additional information available

# Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

# SECTION 13: Disposal considerations

# Waste treatment methods

: Dispose of solid materials or residues at a licensed site. Dispose in a safe manner in Waste disposal recommendations

accordance with local/national regulations. Dispose of contents/container to licensed waste

disposal facility.

Ecology - waste materials : Avoid release to the environment.

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# **SECTION 14: Transport information**

# 14.1. UN number

Not regulated for transport.

# 14.2. UN proper shipping name

Not applicable

## 14.3. Additional information

Other information

: No supplementary information available.

## Transport by sea

No additional information available

# Air transport

No additional information available

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

# Calcium, bis(2,4-pentanedionato-O,O') (19372-44-2) Listed on the United States TSCA (Toxic Substances Control Act) inventory EPA TSCA Regulatory Flag S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule. E - E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.

# 15.2. International regulations

# Calcium, bis(2,4-pentanedionato-O,O') (19372-44-2)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on Turkish inventory of chemical

# 15.3. US State regulations

| CALCIUM 2,4-PENTANEDIONATE dihydrate, 95%(19372-44-2)            |    |  |  |  |
|--|----|--|--|--|
| U.S California - Proposition 65 - Carcinogens List               | No |  |  |  |
| U.S California - Proposition 65 - Developmental Toxicity         | No |  |  |  |
| U.S California - Proposition 65 - Reproductive Toxicity - Female | No |  |  |  |
| U.S California - Proposition 65 - Reproductive Toxicity - Male   | No |  |  |  |

# Calcium, bis(2,4-pentanedionato-O,O') (19372-44-2)

| U.S California -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significance risk level (NSRL) |
|--|--|---|---|-----------------------------------|
| No   | No   | No  | No  |                                   |

# **SECTION 16: Other information**

Abbreviations and acronyms

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

# Full text of H-phrases::

| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4              |
|---------------------|---|
| Eye Irrit. 2A       | Serious eye damage/eye irritation Category 2A |
| H302                | Harmful if swallowed                          |

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H319 Causes serious eye irritation

# **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

Prepared by safety and environmental affairs.

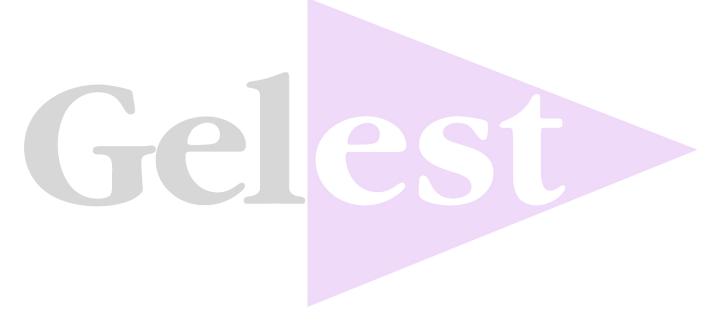
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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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