



Safety Data Sheet

Calcium Acetate

Version: 1

Issue date: 2023-03-08
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1. Identification of the substance/mixture and of the company/undertaking

1.1 **Product identifier:** Calcium Acetate

Product code: 10112, 10142, 10162 and 10272

1.2 **Relevant identified uses of the substance or mixture and uses advised against**

Recommended use: Preservative in food, feed, pharmaceutical and industrial applications.

Restriction on use: For industrial use

1.3 **Details of the supplier of the safety data sheet**

Company: Macco Organiques Inc.
100 Rue Mcarthur suite 112
Salaberry-de-Valleyfield, Québec
Canada, J6S 4M5
450 371-1066

1.4 **Emergency telephone number:** 450 371-1066

2. Hazards identification

2.1 **Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

See toxicological information, section 11

2.2 **Label elements**

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word: NONE

Hazard statement(s)

This product is not a hazardous material.

Precautionary statements

Prevention

P264 Wash hands thoroughly after handling and any other part of the body that may have been exposed to the product.
P280 Wear protective gloves, protective clothing, eye and face protection.

Response

Not applicable

Storage

Not applicable

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.



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2.3 Other hazards:

| No | CAS No : | Common name and synonyms | % | Toxicity | Persistence and degradability | Bioaccumulative potential |
|----|----------|--------------------------|-----|----------|-------------------------------|---------------------------|
| 1 | 62-54-4 | Calcium diacetate | 100 | No | No | No |

Endocrine disruptors

| No | CAS No : | Common name and synonyms | Health effects | Environmental effects |
|----|----------|--------------------------|----------------|-----------------------|
| 1 | 62-54-4 | Calcium diacetate | No | No |

3. Composition/information on ingredients

3.1 Substances

| Common name | % (W/W) | Information |
|-------------------|---------|--|
| Calcium diacetate | 100 | CAS No : 62-54-4 EINECS Number : 200-540-9 Index No : N/A REACH Registration Number : 01-2119987569-11-0019 CLP Classification : N/A M Factor : 1 |

3.2 Mixtures

Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

4. First aid measures

4.1 Description of first aid measures: If swallowed, irritation, any type of overexposure or symptoms of overexposure occur during use of the product or persists after use, immediately contact a POISON CENTER, an EMERGENCY ROOM or a PHYSICIAN; ensure that the product safety data sheet is available.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention as soon as possible.

Skin contact: Remove contaminated clothing immediately. Wash the skin with soap and water. Thoroughly wet contaminated clothing. If irritation persists, consult a doctor.

Inhalation: Move exposed person to fresh air. Keep this person warm and lying down. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

Ingestion: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting unless instructed by medical personnel.



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4.2 Most important symptoms and effects, both acute and delayed

No known symptoms.

No known effect.

4.3 Indication of any immediate medical attention and special treatment needed: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Firefighting measures

5.1 Extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Jets of water can facilitate the spread of fire.

5.2 Special hazards arising from the substance or mixture: No specific hazard.

Hazardous combustion products: Acetone. Carbon monoxide and dioxide.

5.3 Advice for firefighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel :

No action shall be taken involving any personal risk or if you do not have suitable training or protection. Shut off all heating and ignition sources. Avoid breathing dust or mist. Put on appropriate personal protective equipment (see Section 8).

6.1.2 For emergency responders:

Equip the cleaning crew with adequate protection depending on the location of the product.

6.2 Environmental precautions:

Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution. Use inert absorbent or retention tubes in the event of a large spill.

6.3 Methods and material for containment and cleaning up:

Stop leak if without risk. Move containers from spill area. Contain leaks and pick up with non-combustible absorbent materials such as sand, earth or vermiculite. Then, place in an appropriate waste disposal container according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections :

See section 1 for emergency contact information. See section 8 for information on appropriate personal protective equipment. See section 13 for more information on waste treatment.



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7. Handling and storage

7.1 Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). 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. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7.2 Conditions for safe storage, including any incompatibilities: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) 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.

Incompatibility: None known at room temperature.

7.3 Specific end use(s): Not available

8. Exposure controls/personal protection

8.1 Control parameters

1 - National occupational exposure limit values

| Substance | CAS No | Workplace exposure limit | | | | Comments |
|-------------------|---------|--|-------------------|--|-------------------|---|
| | | Longterm exposure limit (8-hr TWA reference period) | | Shortterm exposure limit (15-minute reference period) | | |
| | | ppm | mg/m ³ | ppm | mg/m ³ | |
| Calcium diacetate | 62-54-4 | N/A | N/A | N/A | N/A | The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to substances identified in IOELV Directives |

2 - Union occupational exposure limit values

| EINECS Number | CAS No | Common name and synonyms | 8-hour TWA | | 15-minute occupational exposure limit (STEL) | | Notes |
|---------------|---------|--------------------------|------------|-------------------|--|-------------------|-------|
| | | | ppm | mg/m ³ | ppm | mg/m ³ | |
| 200-540-9 | 62-54-4 | Calcium diacetate | N/A | N/A | N/A | N/A | N/A |



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3 - US occupational exposure limit values

| EINECS Number | CAS No | Common name and synonyms | IDLH NIOSH | Regulatory Limits | | | Recommended Limits | |
|---------------|---------|--------------------------|------------|-------------------|-------------------|----------------------------------|---|----------------------------------|
| | | | | OSHA PEL | | California / OSHA PEL | NIOSH REL | ACGIH® 2019 TLV® |
| | | | | ppm | mg/m ³ | 8-hour TWA (ST) STEL (C) Ceiling | Up to 10-hour TWA (ST) STEL (C) Ceiling | 8-hour TWA (ST) STEL (C) Ceiling |
| 200-540-9 | 62-54-4 | Calcium diacetate | N/A | N/A | N/A | N/A | N/A | N/A |

IDLH: Immediately Dangerous to Life or Health Concentrations
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limits
California / OSHA: California Division of Occupational Safety and Health
REL: Recommended Exposure Limits
ACGIH®: American Conference of Governmental Industrial Hygienists
TLV®: Threshold Limit Values

8.2 Exposure controls: N/A

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

Eyes: DO NOT WEAR CONTACT LENSES. Wear anti-splash safety goggles.

Hands: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

Respiratory: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Others: Wear protective clothing with long sleeves and appropriate safety shoes at all times.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Powder

Colour: White

Odour: Low acetic acid odor

Melting point/freezing point: Not applicable

Initial boiling point/boiling range: Not applicable

Flammability: Not applicable

Lower flammable/explosive limit: Not applicable

Upper flammable/explosive limit: Not applicable

Flash point: Not applicable

Auto-ignition temperature: Not applicable

Decomposition temperature: 160 °C (320 °F)



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pH: 6,3 - 9,6 solution 50mg/mL

Kinematic viscosity: Not applicable

Solubility: Soluble

Partition coefficient n-octanol/water (Log Kow): < 1

Vapour pressure: Not applicable

Density and/or relative density: 1,520 kg/L at 20 °C (water = 1)

Relative vapour density: Not applicable

Particle characteristics: Not available

9.2 Other information: Not applicable

10. Stability and reactivity

10.1 Reactivity: Stable under recommended conditions of storage and handling.

10.2 Chemical stability: Stable under normal conditions of use. On the other hand, it is hygroscopic it absorbs water from moist air.

10.3 Possibility of hazardous reactions: No dangerous or polymerization reactions will not occur under normal conditions of use.

10.4 Conditions to avoid: Keep away from incompatible products (see section 7).

10.5 Incompatible materials: Strong acids.

10.6 Hazardous decomposition products: Carbon monoxide and dioxide. Calcium oxides.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

The following tables summarize the most relevant toxicological data from ECHA, SAX'S (USA), ACGIH (USA), IARC and the CNESST (Canadian) toxicological repertoire.

| | Oral | Dermal | Inhalation gases | Inhalation vapours | Inhalation dusts/mists |
|------------------------|------------|---------------|------------------|--------------------|------------------------|
| ATE _{product} | 4640 mg/kg | > 5 000 mg/kg | N/A | N/A | > 5 mg/l |

| No | CAS No : | Common name and synonyms | LD ₅₀ oral mg/kg | LD ₅₀ skin mg/kg | LC ₅₀ inhalation ppmV 4h - gases | LC ₅₀ inhalation mg/l 4h - vapours | LC ₅₀ inhalation mg/l 4h - dusts-mist |
|----|----------|--------------------------|-----------------------------|-----------------------------|---|---|--|
| 1 | 62-54-4 | Calcium diacetate | 4640 | 20000 | N/A | N/A | > 5.00 |

Information on likely routes of exposure: This product is absorbed through the respiratory tract and by the digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics: No known symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: No known effect.



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| | |
|--|-----|
| Aspiration hazard | N/A |
| Skin corrosion - Skin irritation | N/A |
| Serious eye damage - Eye irritation - Serious eye irritation | N/A |
| Skin sensitization | N/A |
| Respiratory sensitization | N/A |
| Specific target organ toxicity – single exposure | N/A |
| Specific target organ toxicity – single exposure Category 3 Narcotic effects | N/A |
| Specific target organ toxicity – single exposure Category 3 Respiratory tract irritation | N/A |
| Specific target organ toxicity – repeated exposure | N/A |

| No | CAS No : | Common name and synonyms | IARC | ACGIH | Mutagenicity | Effect on reproduction |
|----|----------|--------------------------|------------|------------|-------------------|------------------------|
| 1 | 62-54-4 | Calcium diacetate | Not listed | Not listed | No effects shown. | No effects shown. |

Cancer classification under IARC (International Agency for Research on Cancer)

- Group 1: carcinogenic to humans.
- Group 2A: probably carcinogenic to humans.
- Group 2B: possibly carcinogenic to humans.
- Group 3: not classifiable as to its carcinogenicity to humans.
- Group 4: probably not carcinogenic to humans.

Cancer classification under ACGIH (American Conference of Governmental Industrial Hygienists)

- Group A1: confirmed human carcinogen.
- Group A2: suspected human carcinogen.
- Group A3: confirmed animal carcinogen with unknown relevance to humans.
- Group A4: not classifiable as a human carcinogen.
- Group A5: not suspected as a human carcinogen.

No data available for mixture. The product has been classified on component hazards. Classes and categories not retained at the end of classification are because the components did not meet the reporting threshold or were not hazardous.

11.2 Information on other hazards

Endocrine disrupting properties

Endocrine disrupting properties: Not applicable

Other information

Moderately toxic by intravenous and intraperitoneal routes.

Endocrine disruptors

| No | CAS No : | Common name and synonyms | Health effects |
|----|----------|--------------------------|----------------|
| 1 | 62-54-4 | Calcium diacetate | No |



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12. Ecological information

| No | CAS No : | Common name and synonyms | % | 12.1 Toxicity | 12.2 Persistence and degradability | 12.3 Bioaccumulative potential |
|----|----------|--------------------------|-----|---------------|------------------------------------|--------------------------------|
| 1 | 62-54-4 | Calcium diacetate | 100 | No | No | No |

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment: Not available

12.6 Endocrine disrupting properties:

| No | CAS No : | Common name and synonyms | Environmental effects |
|----|----------|--------------------------|-----------------------|
| 1 | 62-54-4 | Calcium diacetate | No |

12.7 Other adverse effects

| No | CAS No : | Common name and synonyms | % | Terrestrial Ecotoxicity | Aquatic Ecotoxicity short term | Aquatic Ecotoxicity long term |
|----|----------|--------------------------|-----|---|--|--|
| 1 | 62-54-4 | Calcium diacetate | 100 | No known adverse effect to the environment. | No known adverse effect to aquatic life. | No known adverse effect to aquatic life. |

13. Disposal considerations

13.1 Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. Transport information

| | TDG | DOT / TDG | IMDG | IATA |
|---------------------------------|---------------|---------------|---------------|---------------|
| 14.1 UN Number | | | | |
| 14.2 UN Proper shipping name | NOT REGULATED | NOT REGULATED | NOT REGULATED | NOT REGULATED |
| 14.3 Transport hazard class(es) | | | | |
| 14.4 Packing group | | | | |



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14.5 Environmental hazards: No

14.6 Special precautions for user: Not applicable

14.7 Maritime transport in bulk according to IMO instruments: Not applicable

(according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78), and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code))

15. Regulatory information

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

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 59)

This product does not contain any substances are subject to Regulations (EC) No 1005/2009, (EC) No 850/2004 and (EC) No 649/2012.

The customer is responsible for determining the PPE (personal protection equipment) code for this material.

15.2 Chemical safety assessment: Not available

16. Other information

| Classification | Category | Hazard Statement | Justification |
|--------------------------------------|----------|--|---------------|
| Not a hazardous substance or mixture | | H000 - This product is not a hazardous material. | Calculation |

| | |
|------|--|
| P264 | Wash hands thoroughly after handling and any other part of the body that may have been exposed to the product. |
| P280 | Wear protective gloves, protective clothing, eye and face protection. |

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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