

SAFETY DATA SHEET



Calcium acetate

1. Identification of the substance/preparation and company/undertaking

Identification of the substance or preparation

Product name : Calcium acetate
Chemical name : Acetic acid, calcium salt
Synonyms : Gray acetate, lime acetate, vinegar calcium salt.
Chemical formula : $\text{Ca}(\text{CH}_3\text{COO})_2 \cdot x\text{H}_2\text{O}$; $x = 0,56$ for 6% or $x = 0,66$ for 7%.
CAS no. : 62-54-4
EEC # : E-263
EINECS no. : 200-540-9.
NAFTA# : 2915.29.0090

Use of the substance/preparation : Used in manufacture of acetone, acetic acid, acetate, mordant, mordant in dyeing and printing of textiles; stabilizer in resins; additive to calcium soap lubricants, food additive (antimold agent); and corrosion inhibitor.

Company/undertaking identification

Manufacturer : Macco Organiques Inc., 100 McArthur, Valleyfield, Qc, Canada, J6S 4M5
Tel: (450) 371-1066 Fax: (450) 371-5519
macco@macco.ca http://www.macco.ca

Emergency telephone number : CANUTEC (613) 996-6666
CHEMTREC, U.S. : (800) 424-9300 International: (703) 527-3887

2. Composition/information on ingredients

Substance/preparation : Substance

Ingredient name *	CAS number	%	EC number	Classification
Europe None. (See remark below). See section 16 for the full text of the R-phrases declared above				
United States of America Defined as non-hazardous by OSHA under 29 CFR 1910.1200(d).				
Canada Not a WHMIS controlled material.				

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

This substance is coded E 263 under the 92/2/EC Directive concerning Food Additives other than coloring additives and sweeteners.

Occupational exposure limits, if available, are listed in section 8.

* Toxicological Values, if available, are listed in section 11

* PIN, if available, are listed in section 14



3. Hazards identification

The substance is not classified as dangerous according to Directive 67/548/EEC and its amendments.

- Classification** : Not classified.
- Physical state** : Solid. (Crystalline solid.)
- Emergency overview** : No specific hazard.
USE WITH CARE.
During formulation, follow good industrial hygiene practice.
- Routes of entry** : Inhalation. Skin contact. Eye contact. Ingestion.

4. First-aid measures

First-aid measures

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Skin contact** : Wash with soap and water. Obtain medical attention if symptoms occur.
- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Obtain medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : No specific antidote, medical staff contact Poisons Information Centre.
- Potential acute health effects**
- Inhalation** : Slightly hazardous in case of inhalation (lung irritant).
- Ingestion** : Slightly hazardous in case of ingestion.
- Skin** : Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterised by itching, scaling, reddening or, occasionally, blistering.
- Eyes** : Slightly hazardous in case of eye contact (irritant).
- Potential chronic health effects** : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Mutagenic effects: Not available.
Teratogenic effects: Not available.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Hazardous thermal decomposition products** : Under fire conditions or above decomposition temperature, emits carbon monoxide and dioxide, acetone and calcium carbonate.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : Under certain conditions, airborne dust of calcium acetate can explode when ignited by an electrostatic spark or other ignition source.

* See section 9 and 10 for reactivity data.

6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilt material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

7. Handling and storage

- Handling** : Avoid dusting when handling. Do not ingest. Avoid all possible sources of ignition (spark or flame). If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as metals and strong acids, or oxidizing agents.
- Storage** : Avoid all possible sources of ignition (spark or flame). Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.

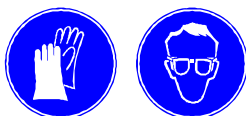
8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Calcium acetate	Not available.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

- Occupational exposure controls** : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Respiratory protection** : Wear appropriate respirator when ventilation is inadequate.
- 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.
Recommended : Disposable vinyl
- Eye 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 dusts.
Recommended: Safety glasses.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Body: Recommended: Lab coat.



- Hygiene 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.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Solid. (Crystalline solid.)
Colour : White to brown or gray.
Odour : Acetic acid. (Slight.)
Molecular weight : 158.18 g/mole

Important health, safety and environmental information

- pH** : 6,3 à 9,6(5% w/v)
6,0 à 9,0(10% w/v)
- Melting point** : Decomposition temperature: 160°C (320°F)
- Vapour pressure** : 0 kPa (0 mm Hg) (at 20°C)
- Relative density** : 0,40-0,48 g/mL
- Solubility** : Easily soluble in hot water, ethanol.
Soluble in cold water, ethanol and acetic acid.
40g/100 ml in cold water.
30-40g/100 ml in hot water.
- Auto-ignition temperature** : Not applicable.
- Explosive properties** : Risks of explosion of the product in presence of mechanical impact: Not applicable.
Risks of explosion of the product in presence of static discharge: Not applicable, except for airborne dust.

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).
- Materials to avoid** : Reactive with oxidizing materials and acids.
Slightly reactive or incompatible with the following materials: metals.
- Hazardous decomposition products** : Under fire conditions or above decomposition temperature, emits carbon monoxide and dioxide, acetone and calcium carbonate.

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : Slightly hazardous in case of skin contact (irritant).
- Eye contact** : Slightly hazardous in case of eye contact (irritant).

Acute toxicity

<u>Product/ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Calcium acetate	LD50	4280 mg/kg	Oral	Rat

Potential chronic health effects

- Chronic toxicity** : Not available.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.



12. Ecological information

- Ecotoxicity** : May be harmful to freshwater aquatic species and to plants that are not saline tolerant.
- Other adverse effects** : No known significant effects or critical hazards.

13. Disposal considerations

- Methods of disposal; Waste residues information; Contaminated packaging** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.
- Waste classification** : Not applicable.
- European waste catalogue (EWC)** : Not available.
- Hazardous waste** : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 94/904/EC.

14. Transport information

International transport regulations

Regulatory information	Proper shipping name	Class	UN number	PG	Label	Additional information
ADR/RID Class	Not applicable.	-	Not regulated.	-		-
ADNR Class	Not applicable.	-	Not regulated.	-		-
IMDG Class	Not applicable.	-	Not regulated.	-		-
IATA Class	Not applicable.	-	Not regulated.	-		-
DOT Class	Not applicable.	-	Not regulated.	-		-
TDG Class	Not applicable.	-	Not regulated.	-		-

ADR/RID: European road and rail transport regulation.

ADN: Rhine maritime transport regulation.

IMDG: International Maritime Dangerous Goods regulation.

IATA/DGR: International Air Transport regulation.

DOT: Department of Transportation Regulation.

TDG: Transport of Dangerous Goods regulation.

15. Regulatory information

EU regulations

- Risk phrases** : This product is not classified according to EU legislation.
- Contains** : Not applicable.
- Product use** : Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.
- Industrial applications.

Other EU regulations

EU statistical classification (Tariff Code) : 2915 29 00

United States

- HCS Classification** : Not regulated.
- U.S. Federal regulations** : TSCA 8(b) inventory: Acetic acid, calcium salt



SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: Acetic acid, calcium salt
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Acetic acid, calcium salt: Delayed (chronic) health hazard
 Clean Water Act (CWA) 307: No products were found.
 Clean Water Act (CWA) 311: No products were found.
 Clean Air Act (CAA) 112 accidental release prevention: No products were found.
 Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
 Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

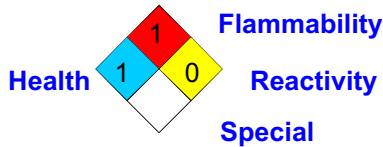
State regulations : California prop. 65 : No products were found.

Canada

WHMIS (Canada) : Not regulated.
 CEPA DSL: Acetic acid, calcium salt

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

National Fire Protection Association (U.S.A.) :



4- Extreme/Extrême
 3- Serious/Sévère
 2- Moderate/Modéré
 1- Slight/Faible
 0- Minimal/Minimum

Hazardous Material Information System (U.S.A.) :

4- Extreme/Extrême
 3- Serious/Sévère
 2- Moderate/Modéré
 1- Slight/Faible
 0- Minimal/Minimum

HMIS RATING

Health	1
Fire hazard	1
Physical Hazard	0
Personal protection	C

References

: ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List". - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.

16. Other information

History

Date of issue : 16 FE 2009
Date of previous issue : 15 DE 2005
Version : 4

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.