



MSDS - Calcium Formate

June 12, 2009

Section 1. Product Identification

Synonyms: Calcium Diformate, Formic Acid, Calcium Salt

Chemical Formula: C₂H₂CaO₄

CAS #: 544-17-2

Distributed by: Pestell Minerals & Ingredients, New Hamburg, ON Canada

24 Hour Emergency Telephone: (Canutec) 613-996-6666

Section 2. Hazardous Ingredients

Calcium Formate CAS No. 544-17-2 % by weight: 98

Section 3. Physical Data

Physical State & Appearance: Powder

Appearance: Clear colorless

Odor: slight acetic odor	pH: Not applicable
Vapor Pressure: Not available	Vapor Density: Not available
Evaporation Rate: Not available	Viscosity: Not available
Boiling Point: Not available	Freezing/Melting Point: >300 deg C
Decomposition Temp: Not available	Solubility in Water: Soluble
Specific Gravity/Density: 2.02	Molecular Formula: C ₂ H ₂ CaO ₄
Molecular Weight: 130,11	-

Hazards Identification

Appearance: Clear colorless

Warning: causes respiratory tract irritation. May cause digestive tract irritation. Irritant. Causes eye and skin irritation. Target Organs: No data found.

Potential Health Effects

Eye: Causes moderate eye irritation. May cause chemical conjunctivitis

Skin: Causes skin irritation

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Aspiration may lead to pulmonary oedema. Causes irritation of the mucous membrane and upper respiratory tract.

Chronic: Effects may be delayed

Section 4. Fire and Explosion Data

General Information: As in any fire, wear a self contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire, use carbon dioxide, dry chemical powder or appropriate foam

Auto-ignition Temperature: Not applicable

Flash Point: Not applicable

Explosion Limits, lower/upper: Not available

NFPA Rating: Flammability: 0 Reactivity: 0

Section 5. Reactivity Data

Chemical Stability: Stable under normal temperatures and pressures

Conditions to Avoid: Incompatible materials

Incompatibilities with Other Materials: None reported

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

Hazardous Polymerization: Will not occur

Section 6. Toxicological Properties

Acute Toxicity

LD/LC50: Draize test, rabbit, eye: 100 mg/24H Moderate; Oral, mouse: LD50=1920 mg/kg

544-17-2 calcium formate

Oral LD50-2650 mg/kg rat

Carcinogenicity: Calcium Formate - not listed by ACGIH, NIOSH, NTP or OSHA

Epidemiology: No information available

Reproductive Effects: No information available

Mutagenicity: No information available

Other Studies: Standard Draize Test: Administration into the eye (rabbit) = 100 mg (moderate)

Section 7. Preventive Measures

Exposure Controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

OSHA Vacated PELs: Calcium formate: No OSHA Vacated PELs are listed for this chemical

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin: Wear appropriate protective gloves to prevent skin exposure

Clothing: Wear appropriate protective clothing to prevent skin exposure

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Accidental Release Measures

General Information: Use proper personal protective equipment as indicated above

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Provide ventilations.

Handling/Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage: Store in a tightly closed container. Store in a cool, dry area away from incompatible substances.

Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 8. First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical attention immediately. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically.

Section 9. Transportation Information

US DOT: No information available

Canadian TDG: No information available

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