



Material Safety Data Sheet

LA6939
Calcium Chloride 32% Soln

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Id: LA6939
Product Name: Calcium Chloride 32% Soln
Synonyms: None
Chemical Family: None Known
Application: Not Available.

Distributed By:
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Prepared By: The Safety, Health and Environment Department of Univar Canada Ltd.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Calcium chloride dihydrate 10035-04-8	15-40	Not available.

Note: No additional remark.

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: Contact with liquid may irritate or burn eyes.

Skin Contact: May cause skin irritation. Under conditions of prolonged contact or when moisture is present, superficial burns may result. Contact with abraded or broken skin can cause severe necrosis.

Inhalation: Inhalation may cause nose bleeds and irritation of the upper respiratory passages with coughing and discomfort. May cause nose and throat irritation. May irritate the lungs.

Ingestion: Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury. Ingestion may cause gastrointestinal irritation or ulceration.

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Wash with soap and water. Remove contaminated clothing and launder before reuse.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g. gastric lavage after endotracheal intubation).

5. FIRE FIGHTING MEASURES

Flash Point: None.

Flash Point Method: Not applicable.

Autoignition Temperature: Not available.

Flammable Limits in Air (%): Not Available.

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Exposure Hazards: Isolate and restrict area access. Zinc as in galvanized iron; yields hydrogen gas, which may explode under these conditions.

Hazardous Decomposition/Combustion Materials (under fire conditions): Chloride.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATINGS FOR THIS PRODUCT ARE: Not Available.

HMIS RATINGS FOR THIS PRODUCT ARE: Not Available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed.

Procedure for Clean Up: Isolate hazard area and restrict access. Avoid direct contact with material. Stop leak only if safe to do so. Absorb with an inert dry material and place in an appropriate waste disposal container. Cautiously spray residue with plenty of water. Many metals are slowly corroded by these solutions.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing mist. Handle and open containers with care. Use appropriate personnel protective equipment. Use good personal hygiene.

Storage: Keep containers tightly closed. Protect against physical damage. Store in accordance with good industrial practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

Respiratory Protection: In misty atmospheres, use an approved mist respirator. Respirator should not contain any metals corrodible by these solutions.

Gloves:

Impervious gloves.

Skin Protection: The selection of personal protective equipment varies depending upon conditions of use. Apron, coveralls and/or other resistant protective clothing. Impervious boots. As a minimum, wear long-sleeve shirts, trousers, and gloves for routine product use.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists. Do NOT wear contact lenses.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Calcium chloride dihydrate	Not available.	Not available.	Not Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Color: Clear - Slightly turbid.

Odor: Odorless

pH Not Available.

Specific Gravity: 1.19 - 1.47

Boiling Point: 105-125°C / 221-257°F

Freezing/Melting Point: Not Available.

Vapor Pressure: Not Available.

Vapor Density: Not Available.

% Volatile by Volume: Not Available.

Evaporation Rate: Not Available.

Solubility: Completely soluble.

VOCs: Not Available.

Viscosity: Not Available.

Molecular Weight: 110.99 (anhydrous)

Other: Not Available.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

Materials to Avoid: Reacts violently with bromine trifluoride or a mixture of boron trioxide and calcium oxide. Sulfuric acid yields hydrogen chloride gas, which is corrosive, irritating and reactive. Water-reactive materials, such as sodium causes an exothermic reaction. Methyl vinyl ether starts runaway polymerization reaction. Zinc as in galvanized iron yields hydrogen gas with solutions which may explode under these conditions. Corrosive to some metals.

Hazardous Decomposition Products: Fumes of Chlorides are given off at temperatures above 1600°C.

Additional Information:

No additional remark.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury. Ingestion may cause gastrointestinal irritation or ulceration.

Skin Contact: May cause skin irritation. Under conditions of prolonged contact or when moisture is present, superficial burns may result. Contact with abraded or broken skin can cause severe necrosis.

11. TOXICOLOGICAL INFORMATION

Inhalation: Inhalation may cause nose bleeds and irritation of the upper respiratory passages with coughing and discomfort. May cause nose and throat irritation. May irritate the lungs.

Eye Contact: Contact with liquid may irritate or burn eyes.

Additional Information:

Acute Test of Product:

Acute Oral LD50: Not Available.

Acute Dermal LD50: Not Available.

Acute Inhalation LC50: Not Available.

Carcinogenicity:

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Calcium chloride dihydrate	Not listed.	Not listed.

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity: Not Available.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Calcium chloride dihydrate	Not Available.	Not Available.	Not Available.

Other Information:

Material is practically non-toxic to fish on an acute basis.

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: Not Regulated.

DOT Hazardous Class: Not Applicable.

DOT UN Number: Not Applicable.

DOT Packing Group: Not Applicable.

DOT Reportable Quantity (lbs): Not Available.

Note: No additional remark.

Marine Pollutant: No.

TDG (Canada):

TDG Shipping Name: Not Regulated.

Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Calcium chloride dihydrate	Not Listed.	Not Listed.	Not Listed.

California Proposition 65: Not Listed.

MA Right to Know List: Not Listed.

New Jersey Right-to-Know List: Not Listed.

Pennsylvania Right to Know List: Not Listed.

WHMIS Hazardous Class:
D2B TOXIC MATERIALS



16. OTHER INFORMATION

Additional Information:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Disclaimer:

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END OF MSDS