

## **Safety Data Sheet**

According to 29 CFR 1910.1200 (g) [Federal Register Vol. 77, No. 58 Dated March 26, 2012]

Date of Issue: 09/08/2020 Revision: 001

## 1. IDENTIFICATION

(a) **Product Identifier**:

Product Name:Calcium Chloride Injection, USPTrade Name:Calcium Chloride Injection, USP

(b) **Intended Use of the Product**: 10% Calcium Chloride Injection, USP is indicated for the

treatment of hypocalcemia in those conditions requiring a

prompt increase in plasma calcium levels.

(c) Name, Address, Telephone of the Manufacturer:

Medefil, Inc.

405 Windy Point Drive Glendale Heights, IL. 60139

(630) 682 – 4600 www.medefilinc.com

(d) **Emergency Telephone Number**: 1-630-682-4600

## 2. HAZARDS IDENTIFICATION

(a) Classification of the Substance of Mixture

**GHS-US Classification:** Eye Irritation: Category 2A

(b) Label Elements

Signal Word (GHS-US): Warning

**Hazard Statements (GHS-US):** H319 - Causes serious eye irritation

**Precautionary Statements (GHS-US):** P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye

protection/face protection

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

**Hazard Pictograms (GHS-US):** 



(c) Other Hazards: Exposure may aggravate pre-existing eye, skin or respiratory

conditions.

(d) Unknown Acute Toxicity (GHS-US): No data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS





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#### 3.2 Mixture

Name	CAS Number	%	<b>GHS-US Classification</b>
Calcium Chloride	10035-04-8	10	Eye Irritant 2A, H319
Water for Injection	7732-18-5	90	Not classified
Hydrochloric Acid*	7647-01-0	-	Skin Corr. 1B, H314
Sodium Hydroxide*	1310-73-2	-	Skin Corr. 1A, H314

<sup>\*</sup> to adjust pH

For full text of H-phrases, see Section 16

## 4. FIRST AID MEASURES

### 4.1 **Description of First-aid Measures**

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

**Skin Contact:** Remove contaminated clothing. Rinse affected area with plenty of water. Obtain

medical attention if irritation develops or persists.

**Eve Contact:** Rinse cautiously with plenty of water. Remove contact lenses, if present and

easy to do. Continue rinsing. Obtain medical

attention if irritation develops or persists.

**Ingestion:** Wash mouth with water. Do NOT induce vomiting. Obtain medical attention.

**Inhalation:** Move to fresh air and ventilate suspected area. If discomfort occurs, obtain medical

attention.

#### 4.2 Most Important Symptoms and Effects Both Acute and Delayed

After Inhalation: Prolonged exposure may cause irritation.

After Skin Contact: Prolonged exposure may cause skin irritation.

After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## 5. FIRE-FIGHTING MEASURES

5.1. **Extinguishing Media**: As for primary cause of fire.

### 5.2. Special Hazards Arising From the Substance or Mixture:

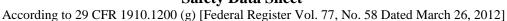
Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. **Advice for Firefighters:** During all fire-fighting activities, wear appropriate protective







equipment, including self-contained breathing apparatus.

## **6.** ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment. Minimize exposure.

#### **6.2.** Environmental Precautions

Place waste in appropriately labeled, sealed container for disposal. Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

Contain the source of spill, if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.

## 7. HANDLING AND STORAGE

### 7.1. **Precautions for Safe Handling**

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, and spray. Avoid contact with skin, eyes and clothing. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store as directed by product packaging. Do not refrigerate.

Incompatible Products: None Known.

### 7.3 **Specific End Use(s):**

10% Calcium Chloride Injection, USP is indicated for the treatment of hypocalcemia in those conditions requiring a prompt increase in plasma calcium levels.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control Parameters:** Refer to available public information for specific member state Occupational

Exposure Limits.

Hydrochloric Acid: ACGIH Ceiling Threshold Limit: 2 ppm.
Sodium Hydroxide: ACGIH Ceiling Threshold Limit: 2 mg/m³.

### 8.2 **Exposure Controls:**

**Appropriate Engineering Controls:** Engineering controls should be used as the primary means to

control exposure. General room ventilation is adequate unless

the process generates dust, mist or fumes. Ensure all

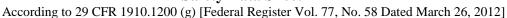
national/local regulations are observed.

**Personal Protective Equipment:** Gloves, Protective clothing, Protective goggles. **Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves. **Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.





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**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced,

approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved

respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear, colorless solution

Odor: Odorless

Odor Threshold: No data available

pH: 5.5 - 7.5

Evaporation Rate: No data available Melting Point: No data available 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

Specific Gravity:  $\approx 1.1$ 

Solubility: Water: Freely soluble in water
Partition Coefficient: N-Octanol/Water: No data available

Viscosity:
Calcium Chloride, USP:
Hydrochloric Acid:
Sodium Hydroxide:
Water for Injection, USP:
No data available
No data available
No data available
No data available

9.2. **Other Information** No additional information available.

## 10. STABILITY AND REACTIVITY

10.1. **Reactivity:** Hazardous reactions will not occur under normal

conditions.

10.2. **Chemical Stability:** Stable under recommended handling and storage

conditions.

10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

10.4. **Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and

incompatible materials.

10.5. **Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Zinc. Bromine

trifluoride.

10.6. Hazardous Decomposition Products: Thermal decomposition products may include Hydrogen

chloride gas, chlorine.



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#### 11 TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects:

General Information: The information included in this section describes the potential hazards of the

individual ingredients.

Short Term: May cause eye irritation (based on components).

**Acute Toxicity: (Species, Route, End Point, Dose)** 

Calcium Chloride, USP (10035-04-8)			
Rat	Oral	LD50	1000 mg/Kg
Mouse	Oral	LD50	1940 mg/Kg

Hydrochloric Acid (7647-01-0)			
Rat	Oral	LD50	238 – 277 mg/Kg

Irritation / Sensitization: (Study Type, Species, Severity)

Calcium Chloride, USP (10035-04-8)		
Eye Irritation	Rabbit	Moderate

Skin Corrosion / Irritation: Not Classified pH: 5.5 - 7.5Serious Eye Damage / Irritation: Not Classified pH: 5.5 - 7.5

Respiratory or Skin Sensitization: Not Classified Germ Cell Mutagenicity: Not classified

Carcinogenicity: None of the components of this formulation are listed as a

carcinogen by IARC, NTP or OSHA classified

Reproductive Toxicity:

Specific Target Organ Toxicity (Single Exposure):

Not classified
Specific Target Organ Toxicity (Repeated Exposure):

Not classified
Aspiration Hazard:

Not classified

Symptoms/Injuries after Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries after Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries after Eye Contact: Contact causes severe irritation with redness and swelling of

the conjunctiva.

Symptoms/Injuries after Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

#### 12 ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties have not been investigated. Releases to the

environment should be avoided.

**12.1 Toxicity:** No data available.

**12.2 Persistence and Degradability:** No data available.

12.3 Bio-accumulative Potential: No data available.

**12.4 Mobility in Soil:** No data available.



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#### 13 DISPOSAL CONSIDERATIONS

**13.1** Waste Treatment Methods: Dispose of contents/container in accordance with local,

regional, national, and international regulations.

**13.2Ecology – Waste Materials:** Avoid release to the environment.

### 14 TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below

**14.1 In Accordance with DOT:** Not regulated for transport.

14.2 In Accordance with IMDG: Not regulated for transport.

**14.3** In Accordance with IATA: Not regulated for transport.

### 15 REGULATORY INFORMATION

#### Calcium Chloride, USP

CERCLA/SARA313 Emission reporting

California Proposition 65

Not listed

Not listed

#### Water for Injection, USP

CERCLA/SARA313 Emission reporting

California Proposition 65

Inventory – United States TSCA – Sec. 8(b)

Not listed
Present

### **Hydrochloric Acid**

CERCLA/SARA313 Emission reporting 1.0% CERCLA/SARA Hazardous substances 5000 lbs And their reportable quantities: 2270 Kg

CERCLA/SARA – Section 302 Extremely

Hazardous TPQs 500 lbs

CERCLA/SARA – Section 302 Extremely

Hazardous EPCRA RQs 5000 lbs California Proposition 65 Not listed Inventory – United States TSCA – Sec. 8(b) Present

### Sodium Hydroxide

CERCLA/SARA313 Emission reporting
CERCLA/SARA Hazardous substances
And their reportable quantities:
454 Kg
California Proposition 65
Inventory – United States TSCA – Sec. 8(b)
Not listed

## 16 OTHER INFORMATION

**Date of Preparation of Latest Information:** September 08, 2020

**Other Information:** This document has been prepared in accordance with

the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:



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Acute Toxicity 4 (Oral)	Acute toxicity (oral) Category 4	
Eye Irritation 2A	Serious eye damage/eye irritation Category 2A	
Skin Corrosion / Irritation Category 1A	II214 Courses servens skin hymns	
Skin Corrosion / Irritation Category 1B	H314 – Causes severe skin burns	
Respiratory Tract Irritation Category 3	H335 – May cause respiratory irritation	
H302	Harmful if swallowed	
H319	Causes serious eye irritation	

Refer to Prescribing Information for further information at <a href="https://www.medefilinc.com">www.medefilinc.com</a>

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END OF SAFETY DATA SHEET