

**Section 1: Identification**

<b>Product Name</b>	CALCIUM CHLORIDE USP DIHYDRATE
<b>Commercial Name</b>	N/A
<b>Product Use</b>	infusion solutions, hemodialysis solutions, mineral supplement
<b>Restrictions On Use</b>	N/A
<b>Product Code</b>	30-5135
<b>Company</b>	PCCA 9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760
	In case of emergency contact: <b>CHEMTREC (24hr) 1-800-424-9300</b>

**Section 2: Hazard(s) Identification**

**OSHA Haz Com:** This substance is classified as dangerous according to Directive 1272/2008/ES and Directive 67/548/EHS  
**CFR 1910.1200:** Eye Irrit. 2; H319 Xi; R36

**Signal Word:** WARNING

**Hazard Statement(s):** H319 Causes serious eye irritation.

**Pictogram(s) or Symbol(s):**



**Precautionary Statement(s):**

<b>Prevention</b>	N/A
<b>Response</b>	N/A
<b>Storage</b>	N/A
<b>Disposal</b>	N/A

**Section 3: Composition/Information on Ingredients**

<b>Substance/Mixture</b>	Calcium Chloride Dihydrate
<b>Components</b>	Calcium Chloride Dihydrate
<b>% By Weight</b>	99-103
<b>CAS#</b>	10035-04-8
<b>Molecular Weight</b>	N/A
<b>Chemical Formula</b>	N/A
<b>Synonym(s)</b>	N/A

**Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Calcium Chloride Dihydrate	10035-04-8	99-103	N/A	N/A

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Stop exposition, move the afflicted person to the fresh air, keep him warm and at rest. If symptoms persist seek medical attention. In case of unconsciousness start with resuscitation (artificial respiration, cardiac massage) and call for medical attention.
<b>Skin Contact</b>	Remove contaminated clothes and footwear. Wash off any skin contamination with cool water and soap. Launder clothes before re-use. In case of persisting irritation contact physician.
<b>Eye Contact</b>	Remove contact lenses if present. Rinse with a small amount of water for at least 10 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention.
<b>Ingestion</b>	Wash out mouth with water and give plenty of water to drink (at least 300 ml) Do not induce vomiting. Seek medical attention. When vomiting, maintain supervision until the help arrives. Obtain medical advice if symptoms persist.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Skin airways or eye irritation. After consumption of a bigger amount vomiting and diarrhea alimentary tract irritation may appear.
<b>Delayed</b>	Red skin, eyes, blurred vision.

**Immediate Medical Attention**

N/A

**Section 5: Fire-Fighting Measures**
**Suitable Extinguishing Media**

Non-combustible substance. All extinguishing media are allowed, select the appropriate extinguishing media depending on the surrounding fire and environment.

**Unsuitable Extinguishing Media**

Strong water jet.

**Products of Combustion**

N/A

**Firefighters Special Equipment and Precautions**

Use individual breathing apparatus, anti-gas safety clothing.

**Section 6: Accidental Release Measures**

**Personal Precautions:** Use personal safety working clothes. Prevent from skin and eye contact. Do not inhale dust. Well ventilated areas. Prevent from dusk making. **Environmental Precautions:** Prevent from escape to watercourses and soil and from their contamination. If there is no way to avoid it, immediately inform appropriate authority (police and firemen). Methods for cleaning up: Clean up contamination/spillages as soon as they occur. Collect as much as possible in a suitable clean container preferably for re-use otherwise for disposal. Avoid generation of dust. Wash the spillage area with large quantities of water. When packaging is damaged replace the amount into a new packaging with proper marking.

**Section 7: Handling and Storage**

**Handling:** Use the personal safety tools. Ensure fresh water for the first aid. Maintain the cleanliness and tidiness on the working area. Provide basic employee training to prevent/minimize exposures and to report any health problems that may develop. Do not eat, drink, or smoke during work. Avoid contact with skin and eyes. Wash hands daily with soap and water, take a shower. Use a body lotion. **Storage:** Store at a dry place not above normal room temperature. Avoid excessive ventilation as the product can absorb moisture from the air. Calcium Chloride liquors can cause corrosion of some grades of stainless steel and under high temperatures and stress conditions can promote stress corrosion cracking. Calcium Chloride is highly hygroscopic.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	N/A
<b>Engineering Controls</b>	N/A



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

### Personal Protection

Respiratory protection: In the case of high dust levels wear suitable respiratory protective equipment, ie: dusk mask, or respirator conforming to EN standards. Recommended Filter= particle filter, P2 Hand protection: Wear suitable chemical resistant protective gloves for frequent or prolonged operations tested to EN374 with an acceptable permeation test. Suitable materials include neoprene (Chloroprene), PVC, and nitrile rubber. Break through time is >480 min. contaminated gloves should be carefully rinsed with water before reuse. Non suitable materials: Leather gloves. Eye/face protection: Wear suitable eye/ face protection. Most materials for protective googles and face visors will probably be suitable eg: polycarbonate. Skin and Body protection: Normal working clothes is suitable.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Coloress up to white solid-crystals		
<b>Odor</b>	odorless		
<b>Odor Threshold</b>	odorless		
<b>Melting Point</b>	176°C	<b>pH</b>	5-8 (5% solution at 20°C)
<b>Freezing Point</b>	N/A	<b>Vapor Pressure</b>	N/A
<b>Boiling Point/Range</b>	N/A	<b>Vapor Density</b>	1,835 g/cm3
<b>Decomposition temperature</b>	260°C	<b>Viscosity</b>	N/A
<b>Partition Coefficient:</b> n-octanol/water	N/A	<b>Evaporation Rate</b>	N/A
<b>Flash Point</b>	N/A, incombustible matter	<b>Autoignition temperature</b>	N/A
<b>Flammability</b>	The substance is non-flammable	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	N/A, non-explosive matter
		<b>Upper</b>	N/A, non-explosive matter
<b>Solubility(ies)</b>	N/A		
<b>Other</b>	N/A		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	N/A
<b>Chemical Stability</b>	Stable under recommended storage and handling conditions. Strong oxidizing agents generates chlorine.
<b>Hazardous Polymerization</b>	N/A
<b>Conditions to Avoid</b>	Humidity and moisture.
<b>Incompatible Materials</b>	Strong reducing and oxidizing agents, boron trifluoride, vinylmethyl eter.
<b>Hazardous Decomposition Products</b>	None at normal use. Irritant or toxic gases can be generated at higher temperature (over 260°C). Generates dangerous gases or fumes in contact with metals, zinc (generation of hydrogen).

**Section 11: Toxicological Information**

<b>RTECS</b>	N/A
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**Acute Toxicity**

LD50 oral, rat(mg.kg-1): 3000 (mouse 2700, rabbit 1000) LD50 dermal, rabbit (mg.kg-1): >6500 LC50 inhalation, rat, for aerosols or particles (mg.l-1): Not specified

**Skin Corrosion/Irritation**

No irritation

**Serious Eye Damage/Irritation**

Eye irritation, Eye irrit. cat. 2

**Respiratory or Skin Sensitization**

Substance does not have sensitive effects on skin and respiratory system

**Germ Cell Mutagenicity**

No mutagenic substance

**Carcinogenicity**

N/A

**Reproductive Toxicity**

Not toxic substance for reproduction

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**Routes of Entry**

N/A

**Symptoms Related to Exposure**

N/A

**Potential Health Effects**

N/A

**Target Organ(s)** Substance does not have toxic effects within repeated exposition**Section 12: Ecological Information****Ecotoxicity**LC50 96 hr, fish (mg.l<sup>-1</sup>):6000 EC50 48 hr., daphnia (mg.l<sup>-1</sup>):3100 EC50 72hr. algae (mg<sup>l</sup>-1):3800**Persistence and Degradability**

Not specified (not relevant for inorganic substances)

**Bioaccumulative Potential**

Not specified

**Mobility in Soil**

Not specified

**Other Adverse Effects**

Not specified

**Section 13: Disposal Considerations****Waste Disposal**

If recycling or reuse is not practical then the product must be disposed of by authorized personnel in accordance with local, state or nation regulations. Never dispose by flushing into the drainage. Water former is responsible for its sorting and disposal.

**Disposal of Container**

If recycling or reuse is not practical then packaging must be disposed of by authorized personnel in accordance with local, state or national regulations. Clean packaging with water and dispose of washing in accordance to local regulations. Packaging can be passed to a packaging return system after the cleaning.

**Other Considerations**

N/A

**Section 14: Transport Information****DOT Classification**

N/A

**Section 15: Regulatory Information****Regulations**

H319: Causes serious eye irritation P264: Wash 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.

**Other**

N/A

**Section 16: Other Information**

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Key or explanation for abbreviations: Eye irrit. 2 : Serious damage of eye/eye irritations, category 2 DNEL: Derived No effect level (derived concentration of substance, at which no unfavorable effects occur.) PNEC: Predicted no effect concentration(prediction of substance concentration, at which no unfavorable effects occur) PEL: Acceptable exposure limit, long-term (8hours) Xi: Irritant CSR: Chemical Safety Report R36: Irritating to eyes The information contained herein were processed and compiled in accordance with the latest state of the art. Although having been compiled in a n utmost good faith they do not deliver or guarantee any of the product properties, this they cannot constitute an official base of any contract or legal relation. Various factors may affect the properties under certain conditions. It is the user sole responsibility to assess and consider the accuracy and veracity or the above indicated information in particular application and/or environment.