# spectrum®



# SAFETY DATA SHEET

Preparation Date: 1/23/2015

Revision Date: 6/26/2018

Revision Number: G2

# **1. IDENTIFICATION**

Product identifier

Product code: Product Name: CA140 CALCIUM CHLORIDE, DIHYDRATE, USP, EP, BP, JP

Other means of identification Synonyms: CAS #: RTECS # CI#:

No information available 10035-04-8 EV9810000 Not available

# Recommended use of the chemical and restrictions on use

Recommended use:No information available.Uses advised againstNo information available

Supplier:

Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At:	https://www.spectrumchemical.com
Emergency telephone number	Chemtrec 1-800-424-9300
Contact Person:	Martin LaBenz (West Coast)
Contact Person:	Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

# **Classification**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2

# Label elements

#### Warning

Hazard statements Harmful if swallowed Causes serious eye irritation



Hazards not otherwise classified (HNOC) Not Applicable

# Other hazards

Exothermic reaction with water Dissolves in water releasing heat May be harmful in contact with skin Causes mild skin irritation

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear eye/face protection

# **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Calcium Chloride, Dihydrate	10035-04-8	100

# 4. FIRST AID MEASURES

#### First aid measures

General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

#### Most important symptoms and effects, both acute and delayed

Product code:	CA140
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Product name: CALCIUM
CHLORIDE, DIHYDRATE, USP, EP,
BP, JP

Symptoms	oms       Irritating to eyes         Irritating to respiratory system         Causes digestive (gastrointestinal) tract irritation         Nausea         Vomiting         Central nervous system effects         Drowsiness         Convulsions         May affect the cardiovascular system         Cardiac arrhythmias		
_		eatment needed	
Notes to Physician:	Treat symptomatically.		
Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment a		ar gloves and other necessary protective clothing. Dispose of	
	5. FIRE-FIGHT	ING MEASURES	
Extinguishing Media Suitable Extinguishing Media:		The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.	
Unsuitable Extinguishing Media:	:	No information available.	
Specific hazards arising from	the chemical		
Hazardous Combustion Product	s:	No information available.	
Specific hazards:		The substance itself does not burn, but may decompose upon heating. This material is an inorganic dust/powder and will not create nor support conditions that would result in a dust explosion or fire. When heated to decomposition it emits toxic fumes. Poisonous gases are produced in fire including chlorine.	
Special Protective Actions for	r Firefighters		
Specific Methods:		No information available.	
Special Protective Equipment fo	r Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear	

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation.		
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent from entering into soil, ditches, sewers, waterways, and/or ground water.		
Methods and material for containment and cleaning up			
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.		
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.		

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

# **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

# Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Hygroscopic. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

# Incompatible Materials:

Zinc Metals Oxidizing agents Acids

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# National occupational exposure limits

# **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Calcium Chloride,	10035-04-8	None	None	None	None
Dihydrate					

Canada

Components CAS-No.	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
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Product code: CA140

				Columbia		
ſ	Calcium Chloride, Dihydrate	10035-04-8	None	None	None	None

# Australia and Mexico

Components	CAS-No.	Australia	Mexico
Calcium Chloride, Dihydrate	10035-04-8	None	None

#### Appropriate engineering controls

# Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Individual protection measures, such as personal protective equipment

# **Personal Protective Equipment**

Eye protection:	Goggles
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves
Respiratory protection:	Wear respirator with dust filter.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Crystalline powder. Crystalline.
Granular.

Odor: None.

Solid

Physical state:

Molecular/Formula weight: 147.01

Flash Point Tested according to: Not applicable

**Upper Explosion Limit (%):** No information available

**Boiling point/range(°C/°F):** No information available

**Specific gravity:** No information available

Product code: CA140

Granular.

No information available.

**Flammability:** No information available

Autoignition Temperature (°C/°F): No information available

Melting point/range(°C/°F): 175.5 °C/347.9 °F

Bulk density: No information available

**pH:** No information available **Color:** White. Off-white.

Formula: CaCl2.2H2O

Flashpoint (°C/°F): No information available.

Lower Explosion Limit (%): No information available

**Decomposition temperature(°C/°F):** No information available

**Density (g/cm3):** 1.850

Vapor pressure @ 20°C (kPa): No information available

A140 Produ CHLORIDE

Product name: CALCIUM CHLORIDE, DIHYDRATE, USP, EP, BP, JP

<b>Evaporation rate:</b> No information available	Vapor density: No information available	<b>VOC content (g/L):</b> No information available					
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: No information available					
<b>Miscibility:</b> No information available	<b>Solubility:</b> Completely soluble in water Easily soluble in water Freely soluble in alcohol						
	10. STABILITY AND REACTIVITY	(					
<b><u>Reactivity</u></b> Reaction with Zinc releases explosive Bromine trifluoride rapidly attacks calc Violent polymerization occurs when mi May form hydrogen chloride in the pres	um chloride xed with Methyl Vinyl Ether						
Chemical stability							
Stability:	Stable under recommended storage conditions						
Possibility of Hazardous Reactions:	_Hazardous polymerization does not occur						
Conditions to avoid:	Heat. Avoid dust formation. Exposure to m Incompatible materials.	noisture. Exposure to moist air.					
Incompatible Materials:	Zinc Metals Oxidizing agents Acids						
Hazardous decomposition products:	When heated to decomposition it emits to	kic fumes. Hydrogen chloride gas.					
Other Information Corrosivity:	No information available						

Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

**Principal Routes of Exposure:** Ingestion. Inhalation. Skin.

# Acute Toxicity

# **Component Information**

Calcium Chloride, Dihydrate	
CAS-No.	10035-04-8

LD50/oral/rat = No information available

LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available

# **Product Information**

LD50/oral/rat = VALUE- Acute Tox Oral = No information available

LD50/oral/mouse = Value - Acute Tox Oral = No information available

LD50/dermal/rabbit VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	May cause skin irritation. Mild skin irritation. Contact with dry skin causes mild skin irritation. May cause severe irritation and possible burns if skin is wet.					
Eye Contact:	Causes serious eye irritation. May cause transient corneal injury.					
Inhalation	Irritating to respiratory system. May cause severe irritation of the upper resp tract with pain, and inflammation.	iratory				
Ingestion	Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. Inge may cause nausea, vomiting. May affect behavior/central nervous system (somnolence, convulsions). May affect the cardiovascular system (cardiac arrhythmias). May affect the cardiovascular system (change in heart rate). M affect blood (changes in serum composition). May affect the blood (changes white blood cell count). May affect respiration. It may affect the brain.	lay				
Aspiration hazard	No information available.					
Delayed and immediate effects	as well as chronic effects from short and long-term exposure					
Chronic Toxicity	No information available.					
Sensitization:	No information available.					
Mutagenic Effects:	May affect genetic material					
Product code: CA140	<b>Product name:</b> CALCIUM CHLORIDE, DIHYDRATE, USP, EP, BP, JP	7 / 12				

# Carcinogenic effects:

Not considered carcinogenic. Equivocal tumorigenic agent by Registery of Toxic Effects of Chemical Substances (RTECS) criteria.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Calcium Chloride, Dihydrate	10035-04-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available		
Reproductive Effects:	No information available		
Developmental Effects:	No information available		
Teratogenic Effects:	No information available		

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

# **12. ECOLOGICAL INFORMATION**

Ecotoxicity	
Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility:	No information available.

# 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

# Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Calcium Chloride, Dihydrate	10035-04-8	None	None	None	None

# **14. TRANSPORT INFORMATION**

Product code: CA140

# DOT

Not Regulated UN-No: No information available **Proper Shipping Name:** Hazard Class: Subsidiary Class Packing group: Emergency Response Guide No information available Number **Marine Pollutant** No data available DOT RQ (lbs): **Special Provisions** Symbol(s): **Description:** 

# TDG (Canada)

UN-No: **Proper Shipping Name:** Hazard Class: Subsidiary Risk: Packing Group: **Marine Pollutant Description:** 

# ADR

UN-No: **Proper Shipping Name:** Hazard Class: Packing Group: Subsidiary Risk:

# IMO / IMDG

UN-No: **Proper Shipping Name: Hazard Class:** Subsidiary Risk: Packing Group: Marine Pollutant

# RID

UN-No: **Proper Shipping Name: Hazard Class:** Subsidiary Risk: Packing Group:

# **ICAO**

UN-No: **Proper Shipping Name: Hazard Class:** Subsidiary Risk: Packing Group:

# ΙΑΤΑ

- UN-No: **Proper Shipping Name:** Hazard Class:
- Product code: CA140

- No information available No information available
  - Not Regulated No information available No information available

Not Regulated No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available

Not Regulated No information available No information available No information available No information available

Not Regulated No information available No information available Subsidiary Risk: Packing Group: ERG Code: Special Provisions No information available No information available No information available No information available

# **15. REGULATORY INFORMATION**

# International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Calcium Chloride, Dihydrate	10035-04-8	Not listed. Calcium chloride, dihydrate (CAS number 10035-04-8) is exempt from TSCA 8(b) Inventory listing since it is a hydrate.		Present	Present (1)-176	Present	Present	Not present
		However, the anhydrous form (CAS number 10043-52-4) is listed as ACTIVE in the TSCA 8(b) Inventory						

### U.S. Regulations

Calcium Chloride, Dihydrate

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1193

 FDA - 21 CFR - Total Food Additives
 133.102
 133.108
 133.111
 133.113
 133.118
 133.127
 133.136
 133.138
 133.141

 133.144
 133.147
 133.149
 133.152
 133.156
 133.157
 133.164
 133.165

 133.179
 133.182
 133.183
 133.185
 133.187
 133.188
 133.190
 133.195

 145.145
 150.141
 150.161
 172.560
 178.1010
 184.1193

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity		Female Reproductive
				Toxicity	Toxicity:
Calcium Chloride, Dihydrate	10035-04-8	Not Listed	Not Listed	Not Listed	Not Listed

# CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Calcium Chloride, Dihydrate	10035-04-8	None	None	None	None	None

#### U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Calcium Chloride, Dihydrate	10035-04-8	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Calcium Chloride, Dihydrate 10035-04-8 (100) WHMIS 2015 Hazard Classification Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**WHMIS 1988** 

D2B

#### WHMIS 1988 Hazard Class

D2B Toxic materials

#### Components

Calcium Chloride, Dihydrate

# **Canada Controlled Products Regulation:**

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

#### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Calcium Chloride, Dihydrate	10035-04-8	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Calcium Chloride, Dihydrate	10035-04-8	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Calcium Chloride, Dihydrate	10035-04-8	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Calcium Chloride, Dihydrate	10035-04-8	No information

#### EU - CLP (1272/2008)

#### R-phrase(s)

R36 - Irritating to eyes.

#### S -phrase(s)

- S 2 Keep out of the reach of children.
- S22 Do not breathe dust.
- S24 Avoid contact with skin.

# Product code: CA140

Components	CAS-No.	 Concentration Limits:	Safety Phrases
Calcium Chloride, Dihydrate	10035-04-8	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

# **Indication of danger:** Xi - Irritant.



# **16. OTHER INFORMATION**

Preparation Date:	1/23/2015
Revision Date:	6/26/2018
Prepared by:	Sonia Owen
Disclaimer:	All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

or