

### **Scientific Documentation**

# Calcium Chloride, Dihydrate, USP, EP, JP (Pyrogen Free), bioCERTIFIED (TM)

Not appropriate for regulatory submission.

Please visit www.spectrumchemical.com or contact Tech Services for the most up-to-date information contained in this information package.

Spectrum Chemical Mfg Corp 769 Jersey Avenue New Brunswick, NJ 08901 Phone 732.214.1300





### **Table of Contents**

Product Specification
Certificate of Analysis
Safety Data Sheet (SDS)
Certification of Current Good Manufacturing Practices (cGMP)
Manufacturing Process Flowchart
Technical Statements
Elemental Impurities Statement
Residual Solvents Statement
General Label Information – Sample Label



# Specification for Calcium Chloride, Dihydrate, USP, EP, JP (Pyrogen Free), bioCERTIFIED (TM) (C9000)

Item Number	C9000
Item	Calcium Chloride, Dihydrate, USP, EP, JP (Pyrogen Free), bioCERTIFIED (TM)
CAS Number	10035-04-8
Molecular Formula	
Molecular Weight	
MDL Number	
Synonyms	

Test	Specification	
	Min	Max
ASSAY (USP)	99.0	107.0 %
ASSAY (EP)	97.0	103.0 %
ASSAY (JP)	96.7	103.3 %
pH of a 5% Solution (USP)	4.5	9.2
Iron, Aluminum and Phosphate (USP)		TO PASS TEST
ACIDITY OR ALKALINITY (EP)		TO PASS TEST
IRON (EP)		10 ppm
ELEMENTAL IMPURITIES		AS REPORTED
HEAVY METALS (JP)		10 ppm
MAGNESIUM AND ALKALI METALS (EP)		0.5 %
MAGNESIUM AND ALKALI SALTS (USP)		1.0 %
Appearance of Solution (EP)		TO PASS TEST
Sulfates (JP)		0.024 %
SULFATES (EP)		300 ppm
Hypochlorite (JP)		TO PASS TEST
Barium (EP)		TO PASS TEST
Arsenic (JP)		2 ppm
Aluminium (EP)		TO PASS TEST

Test	Specification	
	Min	Max
Aluminum (USP)		1 ppm
MICROBIAL LIMITS:		
BACTERIAL ENDOTOXINS		5 IU/g
TAMC		1000 CFU/g
TYMC		100 CFU/g
IDENTIFICATION		TO PASS TEST
RETEST DATE		
DATE OF MANUFACTURE		
RESIDUAL SOLVENTS		AS REPORTED

#### Spectrum Chemical Mfg Corp

Corporate Headquarters:West Coast Facility:769 Jersey Ave.14422 S. San Pedro St.New Brunswick, NJ 08901Gardena, CA 90248732.214.1300310.516.8000



## **Certificate Of Analysis**

Item Number	C9000	Lot Number	4MJ0046
Item	Calcium Chloride, Dihydrate, USP, EP, JP (Pyrogen Free), bioCERTIFIED (TM)	CAS Number	10035-04-8

	SPECIFICATION			
TEST	MIN	MAX	RESULT	
ASSAY (USP)	99.0	107.0 %	101.3 %	
ASSAY (EP)	97.0	103.0 %	102.8 %	
ASSAY (JP)	96.7	103.3 %	101.7 %	
pH of a 5% Solution (USP)	4.5	9.2	7.5	
Iron, Aluminum and Phosphate (USP)		TO PASS TEST	PASSES TEST	
ACIDITY OR ALKALINITY (EP)		TO PASS TEST	PASSES TEST	
IRON (EP)		10 ppm	<10 ppm	
ELEMENTAL IMPURITIES		AS REPORTED	COMPLIES WITH STANDARD	
HEAVY METALS (JP)		10 ppm	<10 ppm	
MAGNESIUM AND ALKALI METALS (EP)		0.5 %	<0.5 %	
MAGNESIUM AND ALKALI SALTS (USP)		1.0 %	<1.0 %	
Appearance of Solution (EP)		TO PASS TEST	PASSES TEST	
Sulfates (JP)		0.024 %	<0.024 %	
SULFATES (EP)		300 ppm	<300 ppm	
Hypochlorite (JP)		TO PASS TEST	PASSES TEST	
Barium (EP)		TO PASS TEST	PASSES TEST	
Arsenic (JP)		2 ppm	<2 ppm	
Aluminium (EP)		TO PASS TEST	PASSES TEST	
Aluminum (USP)		1 ppm	<1 ppm	
MICROBIAL LIMITS:				
BACTERIAL ENDOTOXINS		5 IU/g	<4.8 IU/g	
TAMC		1000 CFU/g	<100 CFU/g	
ТҮМС		100 CFU/g	<50 CFU/g	
IDENTIFICATION		TO PASS TEST	PASSES TEST	
RETEST DATE			28-FEB-2026	
DATE OF MANUFACTURE			28-FEB-2022	
RESIDUAL SOLVENTS		AS REPORTED	NO RESIDUAL SOLVENTS PRESENT	

TECT	SPECIFI	CATION	DECLUT
TEST	MIN	MAX	RESULT
APPEARANCE			WHITE CRYSTALLINE POWDER
MONOGRAPH EDITION			USP 2023, EP 11TH, JP 13TH

Certificate of Analysis Results Entered By:

MCAMACHO Matheu Camacho 08-DEC-23 13:07:59

Spectrum Chemical Mfg Corp 777 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

GHERRERA Genaro Herrera 08-DEC-23 13:18:44

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

# SAFETY DATA SHEET SPECTRUM®



Revision date 21-July-2022

**Revision Number** 1

#### 1. Identification

**Product identifier** 

Product Name CALCIUM CHLORIDE, DIHYDRATE, USP, EP, JP (PYROGEN FREE), bioCERTIFIED™

Other means of identification

Product Code(s) C9000

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

**Supplier Address** 

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

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

#### 2. Hazard(s) identification

#### Classification

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

#### Hazards not otherwise classified (HNOC)

Not applicable

#### **Label elements**

Warning

#### Hazard statements

Harmful if swallowed

Causes serious eye irritation



**Appearance** Crystalline or Crystalline powder or granules

Physical state Solid

Odor No information available

#### **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 protection/ 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 if you feel unwell

Rinse mouth

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

#### Other information

No information available.

#### 3. Composition/information on ingredients

#### <u>Substance</u>

Chemical name	CAS No	Weight-%	Trade secret
Calcium Chloride, Dihydrate	10035-04-8	100	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First-aid measures

#### **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** Wash skin with soap and water.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed

#### 5. Fire-fighting measures

surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact none.

Sensitivity to static discharge none

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions**Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

#### 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Hygroscopic. It absorbs moisture from the air. Protect from moisture. Keep containers

tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

#### 8. Exposure controls/personal protection

Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure

limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

#### Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

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

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection Wear suitable gloves.

**Skin and body protection**Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

#### 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid

Appearance Crystalline or Crystalline powder or granules

ColorWhite to Off-WhiteOdorNo information availableOdor thresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

no data available None known Hq Melting point / freezing point 175.5 °C / 347.9 °F None known no data available Boiling point / boiling range None known Flash point no data available None known **Evaporation rate** no data available None known Flammability (solid, gas) no data available None known Flammability Limit in Air None known

Upper flammability or explosive No

limits

No data available

Lower flammability or explosive

limits

No data available

Vapor pressure No data available None known Vapor density no data available None known Relative density 1.850 None known Easily soluble in water Water solubility None known Solubility(ies) Freely soluble in alcohol None known No data available Partition coefficient None known **Autoignition temperature** no data available None known None known **Decomposition temperature** 

Kinematic viscosity

No data available

None known

None known

None known

None known

Other information

Explosive propertiesNo information availableOxidizing propertiesNo information availableSoftening pointNo information available

Molecular weight 147.01

VOC Content (%) No information available

Liquid Density

No information available

Bulk density

No information available

#### 10. Stability and reactivity

**Reactivity** No information available.

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

#### 11. Toxicological information

Information on likely routes of exposure

Product Information .

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** May cause redness and tearing of the eyes.

**Acute toxicity** 

**Numerical measures of toxicity** 

No information available

Unknown acute toxicity

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Serious eye damage/eye irritation Respiratory or skin sensitization

Germ cell mutagenicity

May cause skin irritation.

Classification based on data available for ingredients. Causes serious eye irritation.

No information available. No information available.

**Reproductive toxicity**No information available.

STOT - single exposure STOT - repeated exposure

Aspiration hazard

No information available. No information available. No information available.

Other adverse effects No information available.

Interactive effects

No information available.

#### 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Persistence and degradability

**Bioaccumulation** 

No information available. Inherently biodegradable.

Other adverse effects No information available.

#### 13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

#### 14. Transport information

**DOT** not regulated

TDG not regulated

MEX not regulated

ICAO (air) not regulated

**IATA** not regulated

**IMDG** not regulated

RID not regulated

ADR not regulated

<u>ADN</u> not regulated

#### 15. Regulatory information

#### **International Inventories**

**TSCA** Complies

DSL/NDSL Does not Comply EINECS/ELINCS Does not Comply

**ENCS IECSC**This product complies with ENCS:
This product complies with China:

KECL Does not Comply PICCS Complies

AICS All the constituents of this material are listed on the Australian Inventory of Chemical

Substances (AICS).

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### 16. Other information

#### NFPA

Health hazards 2 Flammability 0

Instability 0

Physical and chemical properties -

**HMIS** 

Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 21-July-2022

**Revision Note**No information available.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 



#### Certification of Compliance with current Good Manufacturing Practices

#### **Dear Valued Customer:**

Spectrum Chemical Mfg Corp certifies that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Catalog Number	Product Name
C9000	Calcium Chloride, Dihydrate, USP, EP, JP (Pyrogen Free),
	bioCERTIFIED ™

Spectrum is an FDA registered and inspected Drug Establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632 Spectrum-New Brunswick, NJ: 2246824

Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at <a href="mailto:qualityassurance@spectrumchemical.com">qualityassurance@spectrumchemical.com</a>

Sincerely,

Oralia Chavez

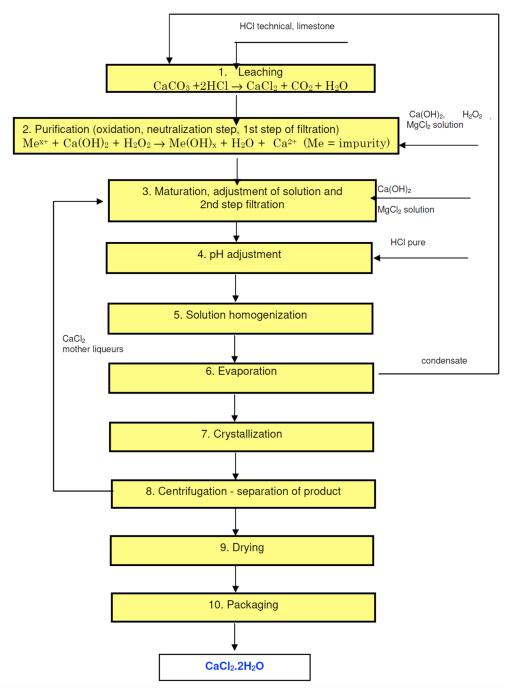
**Quality Assurance Specialist** 

Order Clary



#### **Manufacturing Process Flowchart**

Calcium Chloride, Dihydrate, USP, EP, JP (Pyrogen Free), bioCERTIFIED ™ (Cat# C9000)



CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300

FAX 732.246.7132

WEST COAST FACILITY

14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843



# **C9000**, Calcium Chloride, Dihydrate, USP, EP, JP (Pyrogen Free), bioCERTIFIED ™

#### **Source Statement**

The above mentioned catalog item is manufactured by chemical synthesis. No animal or plant derived products are used in the manufacturing process.

#### **BSE/TSE Statement**

The above mentioned catalog item does not contain nor is manufactured using any animal derived products and is therefore, BSE/TSE free.

#### **Allergen Statement**

The above mentioned catalog item does not contain any of the following:

- Milk
- Egg
- Fish
- Shellfish
- Tree Nuts
- Wheat
- Peanuts
- Soy

- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

#### **GMO Statement**

The above mentioned catalog item is manufactured without the use of genetically modified organisms and is therefore GMO free.

#### **Melamine Statement**

The above mentioned catalog does not use or add melamine to the manufacturing process and is considered melamine-free.

#### **Nitrosamine Statement**

Based on knowledge of the manufacturing process, nitrosamine impurities are not known or suspected to be present in this material.



#### **Animal Testing Statement**

The above mentioned catalog item has not been tested on animals.

#### **Organic Compliance Statement**

The above mentioned catalog item has not been produced using GMOs, irradiation, ethylene oxide (EtO) or sewage sludge.

#### **Shelf Life Statement**

The above-mentioned catalog item is typically assigned a shelf life of 48 months from the date of manufacture. The actual assigned shelf life for any specific lot should be referenced on the Certificate of Analysis.

#### **Other Chemicals Statement**

Spectrum does not have any reason to suspect the above mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- Aflatoxins
- Antibiotics
- Bisphenol A (BPA)
- CMR Substances

- Parabens
- Pesticides
- Phthalates
- Preservatives



## RE: Elemental Impurities - Calcium Chloride, Dihydrate, USP, EP, JP (Pyrogen Free), bioCERTIFIED ™ (Cat# C9000)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above material complies with the USP<232>, <233> Elemental Impurities and the ICH Q3D Elemental Impurities Guideline. The following elemental impurities are likely to be present:

Elemental Impurity		Class	Expected Concentration
Lead	Pb	1	< 0.5 ppm
Barium	Ва	3	< 140 ppm

Other elemental impurities considered by USP <232>, <233> and ICH Q3D which are not addressed in the above mentioned table are not likely to be present. These substances are not used in the production process, are not intentionally added or known to be present in the above mentioned material.

This information is subject to change and is intended for risk assessment only. It is responsibility of the end user to evaluate suitability of any chemical for the intended use as well as to assess compound-specific limits of daily intake of metal impurities. For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at <a href="mailto:TechServices@spectrumchemical.com">TechServices@spectrumchemical.com</a>.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.

CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132 WEST COAST FACILITY

14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843



RE: Residual Solvents - Calcium Chloride, Dihydrate, USP, EP, JP (Pyrogen Free), bioCERTIFIED ™ (C9000)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above mentioned catalog item complies with the requirements of the USP <467> Residual Solvents and the ICH Q3C Residual Solvents Guideline. No Class 1, Class 2, Class 3 or other solvents are used or produced in the manufacture of this product.

For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at <a href="mailto:TechServices@spectrumchemical.com">TechServices@spectrumchemical.com</a>.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.

CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132 WEST COAST FACILITY

14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843



#### **Label Information**

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.

0000-00-00



. Do not eat, drink or smoke when using

this product . Wear eye protection, face protection • Wash face, hands and any exposed skin thoroughly after handling. FIRST AID: 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 attention. IF SWALLOWED: Call a POISON CENTER or physician if you

#### feel unwell. Rinse mouth. **KEEP FROM CHILDREN** WARNING:

Cancer and Reproductive Harmwww.P65Warnings.ca.gov

#### C9000 SIZ SY Calcium Chloride

Dihydrate, USP, EP, JP (Pyrogen Free) bioCERTIFIED™



Not sterile Assay (USP)

Bacterial Endotoxins

TYMC

CAUTION: For manufacturing, processing or repacking. Further processing and testing required for use in parenteral applications

CAS 10035-04-8

Read and understand the label and Safety Data Sheet (SDS) prior to use.

Chemical Emergency: (800)424-9300

www.SpectrumChemical.com

7100dy (OOI )	
Assay (EP)	97.0-103.0%
Assay (JP)	96.7-103.3%
pH of a 5% Solution (USP)	4.5-9.2
MAXIMUM LIMITS	
Iron, Aluminum and Phosphate (USP)	To pass test
Acidity or Alkalinity(EP)	To pass test
Iron (EP)	10 ppm
Elemental Impurities	As reported
Heavy Metals (JP)	
Magnesium and Alkali Metals (EP)	0.5%
Magnesium and Alkali Salts (USP)	1.0%
Appearance of Solution (EP)	To pass test
Sulfates (JP)	0.024%
Sulfates (EP)	300 ppm
Hypochlorite (JP)	To pass test
Barium (EP)	To pass test
Iron (EP)	
Arsenic (JP)	
Aluminium (EP)	
Aluminum (USP)	1 ppm
Residual Solvents	
Microbial Limits:	

99.0-107.0%

1000 CFU/g

100 CFU/a

Lot No. XQ#### G 1/L8GHS

#### Spectrum Chemical Mfg Corp

Corporate Headquarters: 769 Jersey Ave.

New Brunswick, NJ 08901

732.214.1300

West Coast Facility:

14422 S. San Pedro St. Gardena, CA 90248

310.516.8000