

# Anhydrous Calcium Chloride 94-97% Mini-Pellets

Versatile Performance for Industry and Beyond



## Application

Anhydrous Calcium Chloride 94-97% Mini-Pellets are commonly used to formulate high density, solids-free drilling fluids for the oil and gas industry. The product is also used in concrete acceleration and dust control applications.

Some applications require putting anhydrous calcium chloride into solution. (See tables on reverse.)

## Description

Anhydrous Calcium Chloride 94-97% is a purified inorganic salt produced by removing water from a naturally occurring brine solution. Unlike other processes

used to produce calcium chloride, the brine process does not involve reactions with chemicals such as hydrochloric acid or ammonia. The National Organic Standards Board noted this distinction when it classified the brine process as "non-synthetic."

Anhydrous Calcium Chloride 94-97% meets or exceeds ASTM D98 and AASHTO M144 requirements for calcium chloride purity. ASTM classification for anhydrous calcium chloride is Type S, Grade 3, Class B.

## Properties

Characteristic	Typical Value <sup>(1)</sup>
Calcium chloride assay	>94%
Pellet size distribution	
Larger than 2.4 mm	<20%
From 0.6 to 2.4 mm	>76%
Smaller than 0.6 mm	<4%
Bulk density	52-58 lb/ft <sup>3</sup>
ASTM D98 purity requirements <sup>(2)</sup>	
Total alkali chlorides (as NaCl)	<6%
Total magnesium (as MgCl <sub>2</sub> )	<0.5%
Calcium hydroxide	<0.2%

(1) All percentages are by weight.

(2) On an active ingredient basis.

## Storage

Solid calcium chloride is both hygroscopic and deliquescent. This means that the product can absorb moisture from the air, even to the point of converting to liquid brine. For this reason, solid calcium chloride should be protected from excessive exposure to moisture to maintain product quality while in storage. Store in a dry area. Opened packages should be tightly resealed after each use.

*For full safety and handling details, refer to the current Material Safety Data Sheet for this product, available at [www.oxycalciumchloride.com](http://www.oxycalciumchloride.com).*

## Availability

Anhydrous Calcium Chloride 94-97% Mini-Pellets are available in various package sizes, and in bulk truck and bulk rail quantities.





## Making Calcium Chloride Solutions From Anhydrous Calcium Chloride 94-97% Mini-Pellets

Calcium chloride releases heat when it is dissolved. Make sure that the dissolving vessel is appropriately constructed for handling hot solutions. Fill the vessel with cool water (less than 80°F/26°C), then slowly add calcium chloride while continuously stirring. Solids kept in motion will dissolve quickly; however, solids that sit motionless on the vessel bottom may form a hard cake that will dissolve more slowly.

### Making 100 Gallons of Solution From Anhydrous Calcium Chloride 94-97% Mini-Pellets

% CaCl <sub>2</sub> Target	Specific Gravity (77°F)	Density @ 77°F (lb/gal)	Weight of Product to Dissolve (lb)	Water Volume (gal)	Expected Temp. Rise (°F)	Solution Freeze Point (°F)
26	1.251	10.40	288	90	90	-31
28	1.275	10.60	316	89	97	-46
30	1.298	10.79	344	88	104	-52
32	1.322	10.99	374	87	111	-17
34	1.345	11.18	404	86	117	10
36	1.369	11.38	436	84	124	30
38	1.392	11.57	468	83	131	48
40	1.416	11.77	501	81	138	61
42	1.439	11.96	534	79	144	69

### Making 100 Liters of Solution From Anhydrous Calcium Chloride 94-97% Mini-Pellets

% CaCl <sub>2</sub> Target	Specific Gravity (26°C)	Density @ 25°C (kg/L)	Weight of Product to Dissolve (kg)	Water Volume (L)	Expected Temp. Rise (°C)	Solution Freeze Point (°C)
26	1.251	1.247	34	90	50	-35
28	1.275	1.271	38	89	54	-43
30	1.298	1.294	41	88	58	-47
32	1.322	1.318	45	87	61	-27
34	1.345	1.341	48	86	65	-12
36	1.369	1.365	52	84	69	-1
38	1.392	1.388	56	83	73	9
40	1.416	1.412	60	81	76	16
42	1.439	1.435	64	79	80	21

For more information or to find an authorized distributor of OxyChem's calcium chloride products, please call or visit our website.

(888) 293-2336

[www.oxycalciumchloride.com](http://www.oxycalciumchloride.com)

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**Occidental Chemical Corporation**

A subsidiary of Occidental Petroleum Corporation

## FOOD GRADE ANHYDROUS 94-97% CALCIUM CHLORIDE PELLETS

<p><b>General Description</b>  <u>Appearance:</u> White, odorless pellets</p>	<p><b>Features:</b>  Meets cGMP and Food Chemical Codex (FCC) requirements</p> <p>Produced in compliance with FDA FSMA Preventive Controls Rules for Human Food September 17, 2015</p> <p>Meets Global Food Safety Initiative – Produced as an SQF Certified Facility</p> <p>Kosher Certified</p>
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Property	Specification Range
Calcium Chloride (wt. %)	93.0 – 100.5
Fluoride (wt. %)	0.004 Max.
Lead (mg/kg)	5 Max.
Magnesium & Alkali Salts (wt. %)	5.0 Max.
Acid Insoluble Matter (wt. %)	0.02 Max.
Acid Insoluble Particle Size (mm)	2.0 Max.
Arsenic (mg/kg)	3 Max.
<u>Particle Size Distribution</u>	
Passing No. 4 (4.76 mm) sieve (wt. %)	98 Min.
Passing No. 30 (0.6 mm) sieve (wt. %)	5 Max.

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SS-FGP 06/22



## NUTRITIONAL INFORMATION FOOD GRADE ANHYDROUS 94-97% CALCIUM CHLORIDE PELLETS

Occidental Chemical Corporation (OxyChem) is providing the following information as a starting point to develop nutritional data for its product, Food Grade Anhydrous 94-97% Calcium Chloride Pellets.

Nutrient Data per 100 Grams	
Added Sugar	0 grams
Ash	99 grams
Calcium	34 grams
Caloric Value	0 calories
Carbohydrates	0 grams
Fat	0 grams
Fiber	0 grams
Folate	0 micrograms
Magnesium	< 10 milligrams
Moisture	< 1 gram
Potassium	1,290 milligrams
Protein	0 grams
Sodium	650 milligrams
Total Sugar	0 grams
Vitamin A	0 micrograms
Vitamin C	0 micrograms
Vitamin D	0 micrograms

FG Nutrition Calcium Chloride 9/19/2023

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## **ORGANIC COMPLIANCE STATEMENT**

**Food Grade Anhydrous 94-97% Calcium Chloride Pellets**  
**BRINERS CHOICE® Anhydrous Calcium Chloride Pellets**  
**LIQUIDOW® Food Grade Calcium Chloride Solution**

The products listed above are nonsynthetic, inorganic chemicals that are manufactured by the Occidental Chemical Company (OxyChem) in the manner described below:

### **Manufacturing Process**

Aqueous brine is extracted from natural underground deposits by a third-party company. This company adds lime to the brine to precipitate magnesium as magnesium hydroxide, which is removed by filtration and clarification. The remaining calcium chloride-rich brine is transferred via pipeline to OxyChem's Ludington, Michigan facility, where it is concentrated by water evaporation. The concentrated brine is either filtered to remove insoluble and loaded into bulk trucks and railcars for transport to customers, or is fed to a dryer where white, free-flowing pellets of low water content are produced. After sieving to control particle size distribution, the pellets are loaded into railcars for transport to a third-party company for packaging and distribution.

The following situations are not applicable to OxyChem's product:

1. Use of "genetically altered material", "genetically modified microorganism" or "derivation via gene technology";
2. Use of "irradiation" for sterilization and/or shelf life improvement;
3. Incorporation of "sewage sludge fertilizer".

Furthermore, pursuant to 7 CFR 205.605, the products listed above are allowed and approved as an ingredient in or on processed products labeled as "organic" or "made with organic" ingredients. In addition, pursuant to 7 CFR 205.602, these products are allowed for use in organic crop production when used as a foliar spray to treat a physiological disorder associated with calcium uptake.



## **FFDCA STATEMENT**

### **BRINERS CHOICE® Anhydrous Calcium Chloride Pellets**

This FFDCA Statement is subject to the contract executed between Occidental Chemical Corporation (“Seller”) and Sicalco LTD Inc (“Distributor”) and in effect at the time of this order, or, if there is no such contract, this FFDCA Statement is expressly conditioned upon Distributor’s acceptance of Seller’s standard or spot terms and conditions, as applicable.

For purposes of Section 303(c)(2) of the Federal Food, Drug, and Cosmetic Act (“FFDCA”), Seller hereby guarantees that, as of the date of each shipment of BRINERS CHOICE® Anhydrous Calcium Chloride Pellets (“Product”) by it to Distributor located at 522 Chestnut Street, Suite GB, Hinsdale, IL 60521, when shipped, such Product is not adulterated or misbranded within the meaning of the FFDCA, and further guarantees that, as of the date of each such shipment, such Product is not an article that may not, under the provisions of Section 404, 505, or 512 of the FFDCA, be introduced into interstate commerce. The Product may be considered “generally regarded as safe” (“GRAS”) when used in accordance with the manufacturing practices set forth at 21 CFR §§ 184.1 and 184.1193.

This guaranty shall be void and of no effect in any instance where the particular use of the Product to which this guaranty would otherwise apply is a use which is not in accordance with the requirements of the FFDCA or regulations thereunder. This guaranty shall be a continuing guaranty and, unless revoked by Seller by written notice to Distributor, it will remain in force and effect for the term of the underlying commercial transaction between Seller and Distributor involving the Product. This guaranty is not assignable and is given solely for the purposes of Section 303(c)(2) of the FFDCA. By acceptance of this guaranty, Distributor agrees promptly to notify Seller in writing, within ten (10) days, of any demand, complaint, or proceeding for a claimed violation of the FFDCA involving the Product, giving the name and address of the complaining party and the Product lot concerned. Unless such notice is given within ten (10) days of any such claim, demand, or proceeding, this guaranty shall be of no effect.

Briners Choice Food Guar 05/2023

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## ALL GRADES OF CALCIUM CHLORIDE

### ROHS STATUS

#### (EU DIRECTIVES 2002/95/EC, 2011/65/EU, AND 2015/863/EU)

Occidental Chemical Corporation (OxyChem) advises that its calcium chloride products do not contain intentionally added lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs), bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP), or diisobutyl phthalate (DIBP).

These substances are not used in the manufacture of calcium chloride products and are not intentionally added to the manufacturing process. While OxyChem does not specifically test for these substances, based on our knowledge of the manufacturing process and the handling and storage conditions, they are not expected to be present in our products above 0.01% by weight.

RoHS CaCl<sub>2</sub> 9/19/2023

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## CALCIUM CHLORIDE (ALL GRADES)

### REACH COMPLIANCE STATEMENT

Occidental Chemical Corporation (OxyChem) has ensured that its calcium chloride is registered in compliance with the REACH Regulation (EC) No 1907/2006. OxyChem's Only Representative, Occidental Chemical Belgium, BVBA, holds a company-specific REACH Registration Number to cover OxyChem's direct shipments of calcium chloride to our European customers for uses specified in our Chemical Safety Report (CSR).

The substances listed in the current candidate list of SVHC published by the European Chemicals Agency (ECHA) are not used in the manufacture of OxyChem's calcium chloride products and are not intentionally added to the manufacturing process. Based on our knowledge of the manufacturing process and the handling and storage conditions, these substances are not expected to be present in our calcium chloride products at concentration levels above 0.1% by weight.

REACH CaCl<sub>2</sub> 2/20/2024

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## CALCIUM CHLORIDE MANUFACTURING PROCESS OVERVIEW

Calcium chloride ( $\text{CaCl}_2$ ) is a non-synthetic, inorganic chemical that is manufactured by the Occidental Chemical Company (OxyChem) in the manner described below:

### Manufacturing Process Overview

Aqueous brine is extracted from natural underground deposits by a third-party company. This company adds lime to the brine to precipitate magnesium as magnesium hydroxide, which is removed by filtration and clarification. The remaining calcium chloride-rich brine is transferred via pipeline to OxyChem's Ludington, Michigan facility, where it is concentrated by water evaporation. The concentrated brine is fed to a dryer where white, free-flowing pellets or flakes of low water content are produced. After sieving to control particle size distribution, the pellets or flakes are loaded into railcar for transport to a third-party company for packaging and distribution.

Process Solid Calcium Chloride 9/19/2023

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## CALIFORNIA PROPOSITION 65 STATUS

### ALL CALCIUM CHLORIDE PRODUCTS

Calcium chloride is not listed on the California Governor's current list of Carcinogens, Reproductive Toxicants, and/or Candidate Carcinogens, but may contain trace amounts of impurities that are listed.

Occidental Chemical Corporation (OxyChem) does not routinely analyze its calcium chloride products for all trace impurities.

Proposition 65 regulations should be consulted regarding warning requirements, if any, for the final product and whether any exposures to listed chemicals would be within a safe level (i.e., a No Significant Risk Level or NSRL for carcinogens, and/or a Maximum Allowable Dose Level or MADL for reproductive toxins).

Prop65 CaCl<sub>2</sub> 1/25/2024

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## COUNTRY OF ORIGIN STATEMENT

FOOD GRADE ANHYDROUS 94-97% CALCIUM CHLORIDE PELLETS  
BRINERS CHOICE® ANHYDROUS CALCIUM CHLORIDE PELLETS  
LIQUIDOW® FOOD GRADE CALCIUM CHLORIDE SOLUTION

The products listed above are non-synthetic, inorganic chemicals that are manufactured by the Occidental Chemical Company (OxyChem). The following statements apply to these products:

1. Country of Origin for Raw Materials: United States and Canada.
2. Country of Origin for Finished Product: United States

Origin Calcium Chloride 9/19/2023

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## CALCIUM CHLORIDE

### **PACKAGED PRODUCT SHELF LIFE STATEMENT**

When properly stored to protect from moisture contact, the expected shelf life for all calcium chloride packaged products is 36 months.

Calcium chloride does not degrade or deteriorate; however, the shelf life is limited based on the potential for moisture intrusion into the product. Moisture will cause a decrease in overall calcium chloride assay and may cause product clumping.

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Shelf Life Pkg – Calcium Chloride 10/2022

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## **Genetic Modification Statement**

### **Food Grade Anhydrous 94-97% Calcium Chloride Pellets BRINERS CHOICE™ Anhydrous Calcium Chloride Pellets LIQUIDOW™ Food Grade Calcium Chloride Solution**

The issues concerning “genetically altered material”, “genetically modified microorganism” or “derivation via gene technology” are not applicable to the products listed above as manufactured by the Occidental Chemical Corporation (OxyChem). These materials are not Bioengineered substances as defined by the USDA in 7 CFR 66.1.

These products are inorganic chemicals made in the manner described below. No genetic modifications are involved at any time during the manufacturing process.

### **Manufacturing Process**

Aqueous brine is extracted from natural underground deposits by a third party company. This company adds lime to the brine to precipitate magnesium as magnesium hydroxide, which is removed by filtration and clarification. The remaining calcium chloride-rich brine is transferred via pipeline to OxyChem’s Ludington, Michigan facility, where it is concentrated by water evaporation and purified. Concentrated brine is fed to a dryer where white, free-flowing pellets of low water content are produced. After sieving to control particle size distribution, the pellets are transported to a third party company for packaging and distribution.

GMO CaCl<sub>2</sub> Feb 2022



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## Allergen Status

### **Food Grade Anhydrous 94-97% Calcium Chloride Pellets BRINERS CHOICE™ Anhydrous Calcium Chloride Pellets LIQUIDOW™ Food Grade Calcium Chloride Solution**

The allergenic materials or ingredients listed below are not directly used in the manufacture of the above products and are not intentionally added to the manufacturing process.

While OxyChem does not specifically test for these allergens, based on our knowledge of the manufacturing process and the handling and storage conditions, they are not expected to be present in the above products. Further, there is no potential for contamination since none of these materials are stored or processed at the manufacturing facility.

Animal and fish gelatin	Dairy and milk products	Oils, nut and seed
Animal products	Eggs	Rice
Autolyzed yeast	Fruit	Safflower
BHT and BHA	Gluten and glutamate	Seafood, shellfish, mollusks
Bee pollen, honey, royal jelly	Lactose	Sesame
Buckwheat	Legumes	Soy / soya products
Cereals and grains	Lupines	Sulfites
Cocoa	MSG	Tocopherols
Colorants/Dyes	Mustard	Vegetables
Coriander	Nuts	

Allergens CaCl<sub>2</sub> Jan 2021



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Tel. (201) 784-6100, Fax (201) 784-8566

## VEGAN SUITABILITY STATEMENT

Tilley Distribution certifies to the best of our knowledge that the following product is suitable for vegans. This material was not tested on animals and is not derived nor processed from animal or animal derived ingredients, including eggs, shellfish, fish, bees and dairy.

### CCP050 CALCIUM CHLORIDE, ANHYDROUS

**Definition:**

Vegan – a strict vegetarian who does not consume or use any products derived from animals such as meat, eggs, bees or dairy.

*Sierra Santiago*  
Sierra Santiago

Regulatory Affairs Specialist

Issue Date: March 20, 2024

Revision Date: December 30, 2022  
Revision #: 0



## HALAL STATEMENT

Food Grade Anhydrous 94-97% Calcium Chloride  
BRINERS CHOICE™ Anhydrous Calcium Chloride Pellets  
LIQUIDOW™ Food Grade Calcium Chloride Solution

Occidental Chemical Corporation (OxyChem) calcium chloride products (all grades) do not contain or intentionally incorporate any haram materials or additives into the manufacturing process, which are listed in the table below. To the best of our knowledge, OxyChem's calcium chloride products meet all standards necessary to receive halal certification, but OxyChem has elected not to obtain halal certification at this time.

These products are produced at Occidental Chemical Corporation's Ludington, MI facility. Aqueous brine is extracted from natural underground deposits by a third-party company. This company adds lime to the brine to precipitate magnesium as magnesium hydroxide, which is removed by filtration and clarification. The remaining calcium chloride-rich brine is transferred via pipeline to OxyChem's Ludington, Michigan facility, where it is concentrated by water evaporation. The concentrated brine is either filtered to remove insoluble and loaded into bulk trucks and railcars for transport to customers or is fed to a dryer where white, free-flowing pellets of low water content are produced. After sieving to control particle size distribution, the pellets are loaded into railcars for transport to a third-party company for packaging and distribution.

OxyChem certifies that it does not use, nor intentionally add, any of the substances listed below in the manufacture of the calcium chloride products listed above:

Substances			
Alcohol (Including as processing aid)	Blood plasma	Human consumable alcohol (Ethyl Alcohol)	Natural L-cysteine, extracted from hair or feathers
Animal and animal by-products	Bloods of any origin and/or blood by-products	Lard	Rennet
Animal fats and/or extracts	Enzymes	Lipids	Swine and all pork by-products and/or their derivatives
Animal shortening	Gelatin	Meat by-products, meat broth, meat stock	Tallow

Only the food-grade calcium chloride products listed above are manufactured under current Good Manufacturing Practices (cGMP) as defined by the U.S. Food and Drug Administration (FDA). The manufacture of products under cGMP supports the sanitation and traceability of products required for halal certification, but again, OxyChem has elected not to obtain halal certification at this time. Other grades of OxyChem calcium chloride are not manufactured under all cGMP requirements.





# ORTHODOX UNION

## LETTER OF KOSHER CERTIFICATION

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה  
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

ב"ס ד'

August 21, 2024

This is to certify that the following product(s) prepared by  
**Occidental Chemical Corp., 14555 Dallas Parkway, Dallas, TX, 75254**

at the following facility are manufactured under the supervision of the Kashrus Division of the Orthodox Union and are Kosher as indicated below.  
**Occidental Chemical Corp - Ludington, 1600 South Madison Street, Ludington, MI**

Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: BRINER'S CHOICE (TM)</b> • Anhydrous Calcium Chloride	Ouw3-0A4CC91	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<b>Brand: LIQUIDOW (TM)</b> • Food Grade Calcium Chloride <i>Must be shipped in Occidental Chemical Corp. Food Grade Railcars or OU-approved truck trailers.</i>	Ouw4-A0D0044	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.
<b>Brand: Occidental</b> • Food Grade Anhydrous 94-97% Calcium Chloride Pellets	Ouw3-5AE5B21	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

**Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.**

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

**This certification is valid through 8/31/2025**

Page 1 of 2



# ORTHODOX UNION

## LETTER OF KOSHER CERTIFICATION

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה  
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

בס"ד

August 21, 2024

### Occidental Chemical Corp. (continued)

This is to certify that the following product(s) prepared by this company at the facility listed above are manufactured under the supervision of the Kashrus Division of the Orthodox Union and are Kosher as indicated below.

Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: Occidental (Continued)</b>			
• Food Grade Raw Material Calcium Chloride	Ouw4-941E394	Pareve	Certified when bulk shipped in OU approved carriers. Certified for Passover and year-round use.

**Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.**

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

**This certification is valid through 8/31/2025**

Page 2 of 2



# ORTHODOX UNION

## LETTER OF KOSHER CERTIFICATION

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה  
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

בס"ד

August 21, 2024

This is to certify that the following product(s) prepared by  
**Occidental Chemical Corp., 14555 Dallas Parkway, Dallas, TX, 75254**

at the following facility are manufactured under the supervision of the Kashrus Division of the Orthodox Union and are Kosher as indicated below.  
**Cal-Chlor Packaging and Distribution Center, 5379 West 6th Street, Ludington, MI**

Product Name	UKD-ID	Status	Certification Requirements
<b>Brand: BRINER'S CHOICE (TM)</b>			
• Anhydrous Calcium Chloride	Ouw3-0A4CC91	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.
<b>Brand: Occidental</b>			
• Food Grade Anhydrous 94-97% Calcium Chloride Pellets	Ouw3-5AE5B21	Pareve	Ⓢ Symbol required. Certified for Passover and year-round use.

**Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.**

Rabbi Menachem Genack, *Rabbinic Administrator, CEO*

**This certification is valid through 8/31/2025**

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