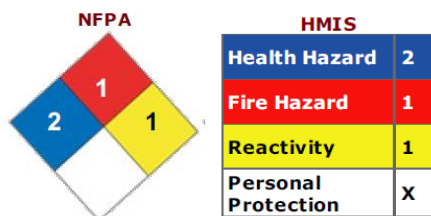


**FRESHWAY FRUIT & VEGETABLE CRISPER**

**FW12, FW61, FW65**

**SECTION 1: CHEMICAL PRODUCT**

Product Name: Freshway Fruit and Vegetable Crisper  
 MSDS Manufacturer Number: FW12, FW61 and FW65  
 Product Use/Restriction: Food grade powder to maintain fruit and vegetable crispness  
 Emergency Phone Number: 1-800-424-9300  
 CHEMTREC: 800-424-9300 (24 hours everyday)  
 Canutec: (613) 996-6666 (Canada 24 hours everyday)



**SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	Ingredient Percent
Citric Acid	77-92-9	60 - 100 by weight
Calcium Chloride	10043-52-4	10 - 30 by weight
Erythorbic Acid	89924-69-6	5 - 15 by weight

**SECTION 3 : HAZARDS IDENTIFICATION**

Emergency Overview: WARNING!  
 Eye contact may cause severe irritation, redness, tearing, and blurred vision.. Causes skin and respiratory tract irritation.

Route of Exposure: Eye contact  
 Inhalation

Potential Health Effects:

Eye: Causes severe eye irritation and possible injury.

Skin: Causes skin irritation

Inhalation: Causes respiratory tract irritation

Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Excessive intake of citric acid may cause erosion of the teeth.

Aggravation of Pre-Existing Conditions: Chronic respiratory or skin conditions may temporarily worsen from exposure to dust from this product.

## **SECTION 4 : FIRST AID MEASURES**

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Do not rub or scratch eyes. If eye irritation persists, consult a specialist.
Skin Contact:	Wash off immediately with soap and cold water. DO NOT rub or scratch affected areas. Remove contaminated clothing. If irritation persists get medical attention.
Inhalation:	Move to fresh air. If symptoms persist, call a physician.
Ingestion:	Accidental ingestion of this material is unlikely. If this does occur, watch person for several days to make sure intestinal blockage does not occur. If symptoms persist, call a physician.
Note to Physicians:	Treat symptomatically.

## **SECTION 5 : FIRE FIGHTING MEASURES**

Flash Point:	No Data
Auto Ignition Temperature:	Not available.
Lower Flammable/Explosive Limit:	No Data
Upper Flammable/Explosive Limit:	No Data
Extinguishing Media:	dry chemical foam carbon dioxide (CO2) water fog
Unsuitable Media:	None.
Protective Equipment:	Wear self-contained breathing apparatus (SCBA) and full fire fighting protective gear.
Unusual Fire Hazards:	Dust in the atmosphere and on surfaces may present a dust explosion hazard.
Hazardous Combustion Byproducts:	Primary combustion products are carbon monoxide, carbon dioxide, hydrogen and water. Other undetermined low molecular weight hydrocarbon compounds may be released in small quantities depending upon specific conditions of combustion.
<b><u>NFPA Ratings:</u></b>	
NFPA Health:	2
NFPA Flammability:	1
NFPA Reactivity:	1

## **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

Personnel Precautions:	Use proper personal protective equipment as listed in section 8.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so.
Methods for containment:	Prevent from spreading by covering, diking or other means.
Methods for cleanup:	Shovel or sweep up for re-use or disposal. Avoid creating dusty conditions. Evaluate residue to determine if it is a hazardous waste by characteristic (D001). Dispose of in accordance with Local, State, Federal and Provincial regulations.

## **SECTION 7 : HANDLING and STORAGE**

Handling:	Avoid dust formation. Do not breathe dust. Wear personal protective equipment.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Keep away from heat, sparks, or open flame.
Work Practices:	Handle in accordance with good industrial hygiene and safety practices.
Hygiene Practices:	Wash exposed areas thoroughly after handling this product. Wash hands and arms frequently. Shower after exposure. Wash work clothes when soiled.

## **SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION**

Engineering Controls:	General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.
Eye/Face Protection:	Safety glasses with side-shields.
Skin Protection Description:	Protective gloves. Long sleeved shirt and long pants.
Respiratory Protection:	When workers are facing airborne particulate/dust concentrations above the exposure limit they must use appropriate certified respirators. A properly fitted NIOSH approved disposable N 95 type dust respirator or better is recommended.

### EXPOSURE GUIDELINES

#### **Calcium Chloride :**

Guideline ACGIH:	TLV-TWA: 15 mg/m3 (Total) 5 mg/m3 (Inhalable)
Guideline OSHA:	PEL-TWA: 15 mg/m3 (Total) 5 mg/m3 (Inhalable)

**SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES**

Physical State:	Fine powder.
Color:	White
Boiling Point:	No Data
Melting Point:	No Data
Specific Gravity:	No Data
Solubility:	No Data
Vapor Density:	No Data
Vapor Pressure:	No Data
Evaporation Rate:	No Data
pH:	2.0 +/- 0.2
Viscosity:	No Data
Flash Point:	No Data
Auto Ignition Temperature:	Not available.

**SECTION 10 : STABILITY and REACTIVITY**

Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Keep away from heat, sparks, or open flame.
Incompatible Materials:	Oxidizing agents, Bases, Reducing agents, Nitrates
Special Decomposition Products:	Thermal decomposition or burning may produce noxious products including carbon monoxide, carbon dioxide, and nitrogen oxides.

## **SECTION 11 : TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. High exposures may cause difficulty breathing, congestion, and chest tightness.

### **Citric Acid :**

**RTECS Number:** GE7350000

**Eye:** Eye - Rabbit; Standard Draize test.: 750 ug/24H [severe] (RTECS)

**Skin:** Skin - Rabbit Standard Draize test.: 500 mg/24H [mild] (RTECS)

**Ingestion:** Inhalation - Rat LD50: 3 gm/kg [Details of toxic effects not reported other than lethal dose value]  
Inhalation - Mouse LD50: 5040 mg/kg [Lungs, Thorax, or Respiration - Other changes Musculoskeletal - Other changes](RTECS)

### **Calcium Chloride :**

**RTECS Number:** EV9800000

## **SECTION 12 : ECOLOGICAL INFORMATION**

**Ecotoxicity:** This material is not expected to cause harm to animals, plants or fish.

## **SECTION 13 : DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Dispose of in accordance with Local, State, Federal and Provincial regulations.

**RCRA Number:** No EPA Waste Numbers are applicable for this product's components.

## **SECTION 14 : TRANSPORT INFORMATION**

**DOT Shipping Name:** Not Regulated.

**IATA Shipping Name:** Not Regulated.

**Canadian Shipping Name:** Not Regulated.

**IMDG Shipping Name :** Not Regulated.

**ADR Shipping Name :** Not Regulated.

**RID Shipping Name :** Not Regulated.

**ICAO Shipping Name:** Not Regulated.

**MEX Shipping Name :** Not Regulated.

## SECTION 15 : REGULATORY INFORMATION

**SARA:** This product does not contain any chemicals which are subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III (40CFR, Part 372).

**Section 311/312 Hazard Categories:** Acute Health Hazard: No  
Chronic Health Hazard: No  
Risk of ignition: No  
Sudden Release of Pressure Hazard: No  
Reactive Hazard: No

**Clean Air Act:** This product does not contain any Hazardous Air Pollutants (HAPs).

**Canada WHMIS:** Not controlled.

### Citric Acid :

**TSCA Inventory Status:** Listed

**EINECS Number:** 201-069-1

**Canada DSL:** Listed

### Calcium Chloride :

**TSCA Inventory Status:** Listed

**EINECS Number:** 233-140-8

**Canada DSL:** Listed

### Disclaimer:

As of the date of the preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. No warranty, representation or guaranty of any kind, express or implied, is hereby provided or intended with respect to the completeness of the information contained herein. Cellucap Manufacturing accepts no responsibility and disclaim all liability for any harmful effects which may be caused by the purchase, resale, use or exposure to our product. Customer users of silica must comply with all applicable health and safety laws, regulations and orders, including OSHA Hazardous Communication Standard.

The above information is based on data of which Cellucap Manufacturing is aware and believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, Cellucap Manufacturing does not assume any responsibility for the results of its use. This information is furnished upon the conditions that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.

Revised 5/29/2013