

1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER ICA Trinova, LLC
 1 Beavers Street, Suite B
 Newnan, GA 30263 USA

REVISION DATE **September 5, 2017**

EMERGENCY TELEPHONE TO REQUEST AN SDS HAZMAT Services, Inc. **800-373-7542**, Contract # 1055
sales@icatrinoa.com

CUSTOMER SERVICE **770-683-9181 M-F 9:00 - 5:00 EST**

PRODUCT IDENTIFIER **FruitGard® Precursor for Chlorine Dioxide**

SYNONYMS ZC Impregnate, Air Filtration Media, Blower Media, Part A

RECOMMENDED USES **Technical Sodium Chlorite is a registered antimicrobial pesticide (EPA Registration Number: 79814-5).** For use in potato storage facilities to fumigate against non-pathogenic spoilage organisms, such as yeasts and molds. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. FruitGard® is effective for use in controlling microbiological growth such as late blight, brown rot, and others on potatoes during storage and shipment.

USES ADVISED AGAINST Anything inconsistent with package instructions.
This is a pesticide product, do not use it in a pesticide application that is not included on its label.

2. HAZARDS IDENTIFICATION

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

COLOR Off-white to tan

PHYSICAL STATE Solid

APPEARANCE Granules

ODOR Slight chlorine odor

GHS CLASSIFICATION

Table A3.1.2 (p. 270) G.H.S. of Classifying and Labeling Chemicals; Sixth Revised Edition

HEALTH HAZARD STATEMENT	HAZARD CATEGORY
MAY BE HARMFUL IF SWALLOWED	5
MAY BE HARMFUL IN CONTACT WITH SKIN	5
CAUSES EYE IRRITATION	2B
HARMFUL IF INHALED	4

UNKNOWN ACUTE TOXICITY
 0% of the mixture consists of ingredient(s) of unknown toxicity

GHS SYMBOL



SIGNAL WORD **WARNING**

PHYSICAL HAZARDS
 Oxidizer. Avoid contact with organic matter. Direct contact with acids will result in release of chlorine dioxide gas.

PRECAUTIONARY STATEMENTS

PREVENTION
 Under normal conditions of use, no health effects are expected. Carefully follow use instructions.

RESPONSE
 Seek medical attention for any persistent symptom or if you feel unwell.

IF SWALLOWED
 Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

IF ON SKIN (OR HAIR)
 Brush off loose particles. Rinse with water.

IF IN EYES
 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for as long as possible or at least 15 minutes.

IF INHALED
 Move person to fresh air and keep comfortable for breathing.

STORAGE
 Store in original container. Store in a well-ventilated place. Keep container tightly closed. Protect from moisture and water to retain product integrity.

DISPOSAL
 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

MAJOR HEALTH HAZARDS
 Premature or accidental product activation, mishandling, improper storage of the package or the contact of package components may cause the evolution of corrosive fumes.

HAZARDS NOT OTHERWISE CLASSIFIED
 None Identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Synonyms	CAS No.	Weight % Range
Sodium Chlorite	Sodium Chlorite, Chlorous Acid, Sodium Salt, Active Sodium Chlorite	7758-19-2	1-15
Zeolite	---	12173-10-3	80-98
Other Ingredients - Not Classified	---	---	1-5

4. FIRST AID MEASURES
GENERAL ADVICE

When medical attention is required, show this SDS to the attending physician.

INGESTION (IF SWALLOWED)

Rinse mouth. Drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

SKIN CONTACT (IF ON SKIN OR HAIR)

Brush off loose particles from skin and clothing. Wash skin with plenty of water. If irritation develops or persists call a physician.

EYE CONTACT (IF IN EYES)

Immediately flush with plenty of water, including under the eyelids. Remove any contact lenses if present and easy to do. Continue to rinse for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention.

INHALATION (IF INHALED)

Move person to fresh air. Get medical attention if needed.

SIGNS AND SYMPTOMS OF EXPOSURE
INGESTION (IF SWALLOWED)

Exposure by ingestion may cause irritation, nausea, and vomiting.

SKIN CONTACT (IF ON SKIN OR HAIR)

Skin exposure may cause redness, rash or irritation.

EYE CONTACT (IF IN EYES)

Exposure to eyes may cause irritation and burns to the eye.

INHALATION (IF INHALED)

Inhalation of airborne material may cause irritation, redness of upper and lower airways, coughing.

NOTES TO PHYSICIAN

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. There is no specific antidote. Treat symptomatically.

SELF-PROTECTION FOR FIRST AID PERSONNEL

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

5. FIRE-FIGHTING MEASURES
FIRE HAZARD

Not a fire hazard.

SUITABLE EXTINGUISHING MEDIA

Use measures that are appropriate to local circumstances and the surrounding environment.

UNSUITABLE EXTINGUISHING MEDIA

Dry chemical, CO2

FIRE FIGHTING

Wear NIOSH approved positive-pressure self-contained breathing apparatus. Consider evacuation of personnel located downwind. Keep unnecessary people away, isolate hazard area and deny entry. Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Flood with fine water spray. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

HAZARDOUS COMBUSTION PRODUCTS	Chlorine, Oxides of sodium
SENSITIVITY TO MECHANICAL IMPACT	Not Sensitive
SENSITIVITY TO STATIC DISCHARGE	Not Sensitive
LOWER FLAMMABILITY LEVEL (AIR)	Not Flammable
FLASH POINT	Not Flammable
AUTO-IGNITION TEMPERATURE	Not Applicable

6. ACCIDENTAL RELEASE MEASURES
PERSONAL PRECAUTIONS

Wear protective gloves, safety glasses and appropriate clothing to minimize skin contact. Avoid breathing dust or fumes.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Pick up spilled material and place in appropriate containers for disposal. Avoid mixing spilled material with other chemicals or debris when cleaning up. Dispose of in accordance with all applicable regulations.

ENVIRONMENTAL PRECAUTIONS

Avoid release into the environment. Do not flush into surface water or sanitary sewer system.

7. HANDLING AND STORAGE
PRECAUTIONS FOR SAFE HANDLING

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, or clothing.

SAFE STORAGE CONDITIONS

Store in tightly closed labeled containers in a dry, well-ventilated area, out of direct sunlight. Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

INCOMPATIBILITIES/MATERIALS TO AVOID

Acids, reducing agents, combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
EXPOSURE GUIDELINES

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

ENGINEERING CONTROLS

Ensure adequate ventilation, especially in confined areas.

GENERAL HYGIENE CONSIDERATIONS

Do not eat, drink, or smoke while using this product. Keep away from food, drink, and animal feeding stuffs. Regular cleaning of equipment, work area, and clothing is recommended. Do not taste or swallow.

SKIN AND BODY PROTECTION

Wear protective clothing to minimize skin contact. Contaminated clothing should be laundered before reuse.

HAND PROTECTION

Impervious gloves are recommended.

PROTECTIVE MATERIAL TYPES

Neoprene

EYE AND FACE PROTECTION

Safety glasses or goggles.

RESPIRATORY PROTECTION

Use a dust mask to avoid breathing particulate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	pH	Not Applicable to Solids
Appearance	Granules	Kinematic Viscosity	Not Applicable to Solids
Color	Off-white, tan, light brown	Water Solubility	1% to 10% at 25° Centigrade
Odor	Slight chlorine odor	Partition Coefficient	Not Applicable
Melting Point/Freezing Point	Not Applicable to Solids	Vapor Pressure	No Information available
Boiling Point/Range	Not Applicable to Solids	Density	Range 80 to 110 lbs./ft ³
Flammability (solid, gas)	No Information available	Vapor Density (air=1)	No Information available
Lower Flammability Level (air)	Not Applicable to Solids	Particle Characteristics	Median 30 mesh, Range 6 - 80 mesh
Upper Flammability Level (air)	Not Applicable to Solids	Molecular Weight	No Information available
Flash point	None	Molecular Formula	No Information available
Auto-ignition Temperature	Not Applicable to Solids	Evaporation Rate (ether=1)	Not Applicable to Solids
Decomposition Temp.	250° - 300° Centigrade	(n-octanol/water)	No Information available

10. STABILITY AND REACTIVITY

REACTIVITY	Not reactive
CHEMICAL STABILITY	Stable
POSSIBILITY OF HAZARDOUS REACTIONS	If exposed to acids, this product may release corrosive fumes.
CONDITIONS TO AVOID	Improper storage in open containers.
INCOMPATIBLE MATERIALS	Not applicable.
HAZARDOUS DECOMPOSITION PRODUCTS	None.
HAZARDOUS POLYMERIZATION	Will not occur

11. TOXICOLOGICAL INFORMATION
LIKELY ROUTES OF EXPOSURE AND POTENTIAL HEALTH EFFECTS

<i>Table A3.1.2 (p. 270) G.H.S. of Classifying and Labeling Chemicals; Sixth Revised Edition</i>			
	HAZARD CLASS	HEALTH HAZARD STATEMENT	CATEGORY
(a.)	Acute Toxicity, Oral	MAY BE HARMFUL IF SWALLOWED	5
(b.)	Skin corrosion/irritation	MAY BE HARMFUL IN CONTACT WITH SKIN	5
(c.)	Serious Eye Damage/eye irritation	CAUSES EYE IRRITATION	2B
(d.)	Acute toxicity , inhalation	HARMFUL IF INHALED	4
(e.)	Germ Cell Mutagenicity	No information available	
(f.)	Carcinogenity	Category 3 - Not classifiable as a carcinogen by IARC	
(g.)	Reproductive Toxicity	No information available	
(h.)	STOT - Single Exposure	No information available	
(i.)	STOT-repeated exposure	No information available	
(j.)	Aspiration Hazard	No information available	

SIGNS AND SYMPTOMS OF EXPOSURE
INGESTION (IF SWALLOWED)

Exposure by ingestion may cause irritation, nausea, and vomiting.

SKIN CONTACT (IF ON SKIN OR HAIR)

Skin exposure may cause redness, rash or irritation.

EYE CONTACT (IF IN EYES)

Exposure to eyes may cause irritation and burns to the eye.

INHALATION (IF INHALED)

Inhalation of airborne material may cause irritation, redness of upper and lower airways, coughing.

12. ECOLOGICAL INFORMATION
ECOTOXICITY DATA

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Zeolite 12173-10-3	18: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	1800: 96 h <i>Brachydanio rerio</i> mg/L LC50 semi-static 3200-5600: 96 h <i>Oryzias latipes</i> mg/l LC50 semi-static 1800-3200: 96 h <i>Poecilia reticulata</i> mg/l Lc50 semi-static.	1000-1800: 48 h <i>Daphnia magna</i> mg/LEC50
Sodium Chlorite 7758-19-2	---	100 - 500: 96 h <i>Brachydanio rerio</i> mg/L LC50 static 100: 96 h <i>Lepomis</i> <i>macrochirus</i> mg/L LC50 static 100: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	0.026: 48 h <i>Daphnia magna</i> mg/L EC50 0.25 - 0.33: 48 h <i>Daphnia magna</i> mg/L EC50 Flow through 0.012 - 0.018: 48 h <i>Daphnia magna</i> mg/L EC50 Static

BIODEGRADATION

Chlorite ions are reduced by some bacteria under anaerobic conditions.

PERSISTENCE

This material will eventually degrade to sodium chloride.

BIOACCUMULATIVE POTENTIAL

This material will not bioaccumulate.

MOBILITY IN SOIL

No Information Available.

OTHER ADVERSE EFFECTS

None Known.

13. DISPOSAL CONSIDERATIONS
CONTAINER MANAGEMENT

Do not reuse container.

WASTE FROM MATERIAL

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Avoid sewage disposal.

14. TRANSPORT INFORMATION
DOT

Not regulated.

15. REGULATORY INFORMATION
INTERNATIONAL INVENTORIES

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory	COMPLIES	This product is not subject to export notification.	
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List	COMPONENT	DSL	NDSL
		Zeolite 12173-10-3	NS - Not Subject/Naturally occurring substances	
		Technical Sodium Chlorite 7758-19-2	Listed	---
		Other Ingredients	Listed	---
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances	COMPLIES	---	
AICS	Australian Inventory of Chemical Substances	COMPLIES	---	

US FEDERAL REGULATIONS

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
SARA 311/312	Acute Health Hazard

16. OTHER INFORMATION

Prepared by ICA-Trinova, LLC

IMPORTANT

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OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees.

End of Safety Data Sheet