

1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER ICA Trinova, LLC
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REVISION DATE **September 13, 2017**

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

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

PRODUCT IDENTIFIER **Z-Series™ Water Treatment Pack Precursor for Chlorine Dioxide Solution**
 Precursor for Chlorine Dioxide, Part A, Sodium Chlorite Flake

SYNONYMS

RECOMMENDED USES **Technical Sodium Chlorite is a registered antimicrobial pesticide (EPA Registration Number: 5382-42).** Its uses are potable water, industrial cooling water, mollusk control, food plant process water, wastewater, slime control in paper mills, and oilfield water. Technical Sodium Chlorite is a registered pesticide (Reg. No. 25361) in Canada, for use only in Manufacturing or Formulation Pesticides Registered under the Pest Control Products Act.

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 White

PHYSICAL STATE Solid

APPEARANCE Flake

ODOR Chlorine

GHS CLASSIFICATION

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

| HEALTH HAZARD STATEMENT | HAZARD CATEGORY |
|--|-----------------|
| TOXIC IF SWALLOWED | 3 |
| CAUSES SKIN IRRITATION | 2 |
| CAUSES SERIOUS EYE DAMAGE | 1 |
| FATAL IF INHALED | 2 |
| MAY CAUSE DAMAGE TO RESPIRATORY SYSTEM, BLOOD, KIDNEYS | 2 |
| MAY CAUSE DAMAGE TO BLOOD, KIDNEY THROUGH PROLONGED OR REPEATED EXPOSURE | 2 |

UNKNOWN ACUTE TOXICITY

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

GHS SYMBOL

DANGER
SIGNAL WORD
AQUATIC HAZARD

Harmful to aquatic life.

PHYSICAL HAZARDS

Strong Oxidizer. Contact with other materials may cause fire or explosion.

OTHER HAZARDS

Premature or accidental product activation, mishandling, and/or improper storage of the package or the contact of package components with acids and/or reducing agents may result in the release of Chlorine Dioxide gas. Direct contact with or inhalation of Chlorine Dioxide gas will result in skin and/or eye irritation and/or inflammation of the respiratory system and/or mucous membranes. Extended inhalation of Chlorine Dioxide gas in high concentrations may lead to coughing, bronchitis, pulmonary edema and oxidative burns.

PRECAUTIONARY STATEMENTS
PREVENTION

Do not eat, drink, or smoke when using this product. Do not breathe dust, fumes, gas, mist, vapor, or spray. Wear respiratory protection. Wear protective gloves, protective clothing, eye, and face protection. Keep away from heat. Keep/store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles.

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. Get medical attention if needed.

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 | 77-83 |
| Sodium Chloride | Salt | 7647-14-5 | 11-19 |
| Water | H ₂ O | 7732-18-5 | 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. 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. Rinse with water.

EYE CONTACT (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.

INHALATION (IF INHALED)

Move person to fresh air and keep comfortable for breathing. 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

Negligible fire hazard. This product may represent an explosion hazard if it contacts acids, chlorine, or organic materials (Refer to Section 10).

SUITABLE EXTINGUISHING MEDIA

Use water to extinguish. 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 | Avoid mechanical impact |
| 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.

NON-REGULATORY EXPOSURE LIMIT(S):

Listed below for the product components that have non-regulatory occupational exposure limits (OEL's). The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

| | |
|-------------------------|---|
| OXY REL 8 HR TWA | 1 mg/m ³ recommended TWA - 8 hour (internal OEL). This value is based on potential systemic effects from inhalation of sodium chlorite dust. |
|-------------------------|---|

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 | Flake | Kinematic Viscosity | Not Applicable to Solids |
| Color | White | Water Solubility | 39% at 25° Centigrade |
| Odor | chlorine | 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 | 69 lbs./ft ³ (packed) |
| Flammability (solid, gas) | Not Flammable | Vapor Density (air=1) | No Information available |
| Lower Flammability Level (air) | Not Flammable | Particle Characteristics | Median 30 mesh, Range 6 - 80 mesh |
| Upper Flammability Level (air) | Not Flammable | Molecular Weight | No Information available |
| Flash point | Not Applicable | Molecular Formula | No Information available |
| Auto-ignition Temperature | Not Applicable to Solids | Evaporation Rate (ether=1) | Not Applicable to Solids |
| Decomposition Temp. | 180° - 200° Centigrade | (n-octanol/water) | No Information available |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| REACTIVITY | Not reactive |
| CHEMICAL STABILITY | Stable |
| POSSIBILITY OF HAZARDOUS REACTIONS | Astrong Oxidizer. If exposed to acids, this product may release corrosive fumes. |
| CONDITIONS TO AVOID | Improper storage in open containers. Avoid mechanical impact. |
| INCOMPATIBLE MATERIALS | Acids and reducing agents except as provided for in the directions for use. |
| HAZARDOUS DECOMPOSITION PRODUCTS | Chlorine and oxides of sodium. |
| HAZARDOUS POLYMERIZATION | Will not occur |

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

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

| | HAZARD CLASS | HEALTH HAZARD STATEMENT | CATEGORY |
|------|-----------------------------------|--|----------|
| (a.) | Acute Toxicity, Oral | TOXIC IF SWALLOWED | 3 |
| (b.) | Skin corrosion/irritation | CAUSES SKIN IRRITATION | 2 |
| (c.) | Serious Eye Damage/eye irritation | CAUSES SERIOUS EYE DAMAGE | 1 |
| (d.) | Acute toxicity, inhalation | FATAL IF INHALED | 2 |
| (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 | MAY CAUSE DAMAGE TO RESPIRATORY SYSTEM, BLOOD, KIDNEYS | 2 |
| (i.) | STOT-repeated exposure | MAY CAUSE DAMAGE TO BLOOD, KIDNEY THROUGH PROLONGED OR REPEATED EXPOSURE | 2 |
| (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 |
|------------------------------|----------------------|--|--|
| Sodium Chlorite 7758-19-2 | --- | 100 - 500: 96 h Brachydanio rerio mg/L LC50 static 100: 96 h Lepomis macrochirus mg/L LC50 static 100: 96 h Oncorhynchus mykiss mg/L LC50 static | 0.020: 48 h Daphnia magna mg/L EC50 0.25 - 0.33: 48 h Daphnia magna mg/L EC50 Flow through 0.012 - 0.018: 48 h Daphnia magna 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
LAND TRANSPORT

| US DOT 49 CFR 172.101 | |
|-----------------------|-----------------|
| UN NUMBER | UN1496 |
| PROPER SHIPPING NAME | SODIUM CHLORITE |
| HAZARD CLASS/DIVISION | 5.1 |
| PACKING GROUP | II |
| LABELING REQUIREMENTS | 5.1 |

| CANADIAN TRANSPORTATION OF DANGEROUS GOODS | |
|--|-----------------|
| UN NUMBER | UN1496 |
| SHIPPING NAME | SODIUM CHLORITE |
| CLASS OR DIVISION | 5.1 |
| PACKING/RISK GROUP | II |
| LABELING REQUIREMENTS | 5.1 |

| MARITIME TRANSPORT (IMO/IMDG) | |
|-------------------------------|-----------------|
| UN NUMBER | UN1496 |
| PROPER SHIPPING NAME | SODIUM CHLORITE |
| HAZARD CLASS/DIVISION | 5.1 |
| PACKING GROUP | II |
| LABELING REQUIREMENTS | 5.1 |

15. REGULATORY INFORMATION
US REGULATIONS
OSHA REGULATORY STATUS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4)

If a release is reportable under CRECLA section 103, notify the state emergency response commission and local emergency planning committee.

SARA EHS CHEMICAL (40 CFR 355.30)

Not regulated.

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10)

Acute Health Hazard, Chronic Health Hazard, Fire Hazard

EPCRA SECTIONS 313 (40 CFR 372.65)

Not regulated.

NATIONAL INVENTORY STATUS

US inventory status: Toxic substance Control Act (TSCA) - All components are listed or exempt.

TSCA 12(b)

Not subject to export notification.

CANADIAN CHEMICAL INVENTORY

All components of this product are listed on either the DSL or the NDSL.

STATE REGULATIONS
CALIFORNIA PROPOSITION 65

This product and its ingredients are not listed, but may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act.

| | |
|--|-----------------------------------|
| California Proposition 65 Cancer WARNING: | Not Listed |
| California Proposition 65 CRT List Male Reproductive Toxin | Not Listed |
| California Proposition 65 CRT List Female reproductive toxin | Not Listed |
| Massachusetts Right to Know Hazardous Substance List | Listed |
| New Jersey Right to Know Hazardous Substance List | 1689 |
| New Jersey Special Health Hazards Substance List | corrosive; reactive second degree |
| New Jersey Environmental Hazardous substance List | Not Listed |
| Pennsylvania Right to Know Hazardous Substance List | Listed |
| Pennsylvania Right to Know Special Hazardous Substances | Not Listed |
| Pennsylvania Right to Know Environmental Hazard List | Not Listed |
| Rhode Island Right to Know Hazardous Substance List | Not Listed |

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

WHMIS - CLASSIFICATIONS OF SUBSTANCES

C - Oxidizing Material

D1A - Poisonous and Infectious Material; Materials causing immediate and serious toxic effects - Very toxic material

D1B - Poisonous and Infectious Material; Materials causing immediate and serious toxic effects - Toxic material

D2B - Poisonous and Infectious Material; Materials causing other toxic effects - Toxic material

E - Corrosive material

NATIONAL INVENTORY STATUS

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA) - Complies. All components are listed or exempt.

TSCA 12(b) - This product is not subject to export notification.

Canadian Chemical Inventory - All components of this product are listed on either the DSL or the NDSL.

SARA 311/312 HAZARD CATEGORIES

| | | | |
|-----------------------|-----|-----------------------------------|----|
| Acute health hazard | Yes | Sudden release of pressure hazard | No |
| Chronic Health Hazard | No | Reactive Hazard | No |
| Fire hazard | No | | |

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

16. OTHER INFORMATION

Prepared by ICA-Trinova, LLC

| HMIS (SCALE 0-4) Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition | | |
|---|-----------------------|---------------------|
| Health Rating 3 | Flammability Rating 0 | Reactivity Rating 1 |
| NFPA 704 - Hazard Identification Ratings (SCALE 0-4) | | |
| Health Rating 1 | Flammability Rating 0 | Reactivity Rating 1 |

IMPORTANT

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal, and other factors that may involve other or additional legal, environmental, safety or performance considerations, and ICA-Trinova, LLC assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local, or foreign laws.

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