

1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER ICA Trinova, LLC
 1 Beavers Street, Suite B
 Newnan, GA 30263 USA
REVISION DATE September 13, 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 **Z-Series™ Water Treatment Pack Precursor for Chlorine Dioxide Solution**
SYNONYMS Precursor for Chlorine Dioxide, Part A, Sodium Chlorite Flake
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

SIGNAL WORD

DANGER

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.
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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	Strong 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

1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER ICA Trinova, LLC
 1 Beavers Street, Suite B
 Newnan, GA 30263 USA
REVISION DATE September 12, 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, Part B**
SYNONYMS ZS, Acid Activator, Part B,
RECOMMENDED USES Use as an activator for precursor chemicals
USES ADVISED AGAINST Anything inconsistent with package instructions.

2. HAZARDS IDENTIFICATION

CLASSIFICATION This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
COLOR White to Lt. Grey
PHYSICAL STATE Solid
APPEARANCE Granules
ODOR None

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
GHS SYMBOL


SIGNAL WORD **DANGER**

PHYSICAL HAZARDS

May be corrosive to metals

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.

HAZARDS NOT OTHERWISE CLASSIFIED

None Identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Synonyms	CAS No.	Weight % Range
Sulfuric Acid	H ₂ SO ₄	7664-93-9	10-30
Zeolite	---	12173-10-3	65-90
Other Ingredients - Not Classified	---	---	0-5

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.

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.

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

None known.

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	Not Applicable
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

Will react with water to produce corrosive liquid or fumes.

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	White to Lt. Grey	Water Solubility	Partially soluble in water
Odor	None	Partition Coefficient	Not Applicable
Melting Point/Freezing Point	Not Applicable	Vapor Pressure	Not Applicable
Boiling Point/Range	Not Applicable	Density	Approx. 60 lbs. per cubic foot
Flammability (solid, gas)	No Information available	Vapor Density (air=1)	Not Applicable
Lower Flammability Level (air)	No Information available	Particle Characteristics	Median 18 mesh, Range 6-80 mesh
Upper Flammability Level (air)	No Information available	Molecular Weight	No Information available
Flash point	Not Applicable to Solids	Molecular Formula	No Information available
Auto-ignition Temperature	No Information available	Evaporation Rate (ether=1)	Not Applicable to Solids
Decomposition Temp.	No Information available		

10. STABILITY AND REACTIVITY

REACTIVITY	Not Reactive
CHEMICAL STABILITY	Stable
POSSIBILITY OF HAZARDOUS REACTIONS	None Known
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

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	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	Not Classified	
(f.)	Carcinogenity	Category 3 - Not classifiable as a carcinogen by IARC	
(g.)	Reproductive Toxicity	Not Classified	
(h.)	STOT - Single Exposure	Not Classified	
(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</i> <i>reticulata</i> mg/l LC50 semi-static.	1000-1800: 48 h <i>Daphnia</i> <i>magna</i> mg/LECSO	
Chemical Name	Bluegill Fish (<i>Lepomis macrochirus</i>)	Algae	Zebra Fish	Water Flea
Sulfuric Acid	LC50 = 16 - 28 mg/L (pH = 3.25 - 3.5)	NOEC = 0.13 mg/L (pH = 5.6)	LC50 = 82 mg/L	EC50 = 42.5mg/L

BIODEGRADATION

No data available.

PERSISTENCE

No data available.

BIOACCUMULATIVE POTENTIAL

This material will not bioaccumulate.

MOBILITY IN SOIL

No data 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
US REGULATIONS

OSHA Hazard Communication Standard (29CFR 1910.1200)	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard.
TSCA	All Components are listed or exempted.
SARA 311/312	Reactive Hazard/Acute Health Hazard/Chronic Health Hazard.
SARA 313 Components	This product contains sulfuric acid which is subject to reporting requirements of this section of SARA Title III.
SARA 302/304/311/312 Extremely Hazardous Substance	This product contains sulfuric acid which is subject to reporting requirements of this section of SARA Title III.
SARA 302/304 Emergency Planning & Notification	This product contains sulfuric acid which is subject to reporting requirements of this section of SARA Title III.
Clean Water Act	This product contains sulfuric acid which is regulated as a hazardous substance pursuant to the Clean Water Act.
Clean Air Act	This product contains no chemical(s) regulated as a Hazardous Air Pollutants (HAP), Class 1 Ozone Depletor or Class 2 Ozone Depletor pursuant to the Clean Air Act.
California Proposition 65, Safe Drinking Water and Toxic Enforcement Act of 1986	This product contains Sulfuric Acid which is known to the state of California to cause cancer, birth defects or other reproductive harm.
Other U.S. State Inventories	Sulfuric Acid is listed on the following State Hazardous Substance Inventories or Right-to Know lists: MA/NJ/NY/PA

CANADIAN REGULATIONS

COMPONENT	DSL	NDSL
Sulfuric Acid 7664-93-9	Listed	Not Listed
Zeolite 12173-10-3	NS - Not Subject/Naturally occurring substances	

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