

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

CS-416P

CANNON WATER
TECHNOLOGY INC.

233 Technology Way/Ste. 9, Rocklin, CA 95765

Non-Emergency Phone: 916-315-2691

Product Use: Mixture, components for Water Treatment
Applications24 Hour Emergency Response No.:
800-255-3924 (CHEMTEL)

Personal Protective Equipment(s)



GHS Pictogram(s)



DOT Symbol(s)



HMIS

2	HEALTH
0	FLAMMABILITY
2	REACTIVITY
J	PROTECTIVE EQUIPMENT

To the best of our knowledge, this Safety Data Sheet is prepared to comply with US OSHA 29 CFR 1910.1200 and other governmental agencies both domestic and foreign. Hazard and precautionary statements are based on maximum listed concentrations of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200) and/or other governmental agencies.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

GHS Label Element
Signal Word**"DANGER"**

Symbol(s)



Hazard Statements

H302-Harmful if swallowed.
H312-Harmful in contact with skin.
H319-Causes serious eye irritation.
H332-Harmful if inhaled.
H413-May cause long lasting harmful effects to aquatic life.

Precautionary Statements

P102-Keep out of reach of children.
P233-Keep container tightly closed.
P262-Do not get in eyes, on skin or on clothing.
P264-Wash thoroughly after handling.
P281-Use personal protective equipment as required.

3. COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Components	% by Wt.	CAS Number	Hazard Statements (Section 15)	GHS Hazard Pictogram(s)
Sodium Nitrite	70-75	7632-00-0	H272-May cause or intensify fire; OXIDIZER H301-Toxic if swallowed. H316-Causes mild skin irritation. H320-Causes eye irritation H412-Harmful to aquatic life with long lasting effects.	
Sodium Tetraborate	10-15	1303-96-4	H303-May be harmful if swallowed. H316-Causes mild skin irritation. H320-Causes eye irritation	
Sodium Nitrate	0-10	7631-99-4	H272-May cause or intensify fire; OXIDIZER H301-Toxic if swallowed. H316-Causes mild skin irritation. H320-Causes eye irritation H412-Harmful to aquatic life with long lasting effects.	
Non Hazardous Ingredient	0-20			
Total	100.00			

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Call a physician if any difficulties persist.

Eyes: Flush eyes with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid, get appropriate in-plant, paramedic or community medical support.

Skin: Wash affected areas thoroughly with soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek

medical attention if any irritation persists.

Ingestion If person can swallow, give 2 glasses of water to drink. DO NOT INDUCE VOMITING! After first aid, seek appropriate in-plant, paramedic, or community medical support. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

5. FIRE FIGHTING MEASURES

Flammability Classification: Non Flammable
Suitable Extinguishing Media: Water fog, Alcohol foam, Carbon Dioxide, Dry Chemical
Unusual Fire or Explosion Hazards: None known other than material can splatter above 100°C/212°F.
Hazardous Combustion Products: Unknown but carbon monoxide may be released on burning.
Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
Small Spills: Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water.
Large Spills: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill with vermiculite, oil dry or similar non-reactant absorbent. Solidified product represents no environmental hazard.
Containment: Solidified product represents no environmental hazard.
Cleanup: Accumulate the absorbed materials and dispose of according to federal, state and local regulations.
Environmental Precautions: Follow applicable OSHA/CERCLA or any other regulations (29 CFR 1910.120) as well as any state or local regulations that may apply.

7. HANDLING AND STORAGE

Precautions for safe handling: Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other combustible materials. Observe good personal hygiene and housekeeping practices. Wash thoroughly after handling.
Conditions for safe Storage: Do not store in direct sunlight. Store in a tightly closed container. Store in a cool dry, well ventilated area. Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes.
Regulatory Requirements: Store materials according to all local, state and federal guidelines that are established for non-regulated chemical products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

Hazardous Components	CAS Number	OSHA PEL/TWA STEL	ACGIH TLV/TWA STEL	Other
Sodium Nitrate	7631-99-4	None Est.	None Est.	
Sodium Nitrite	7632-00-0	None Est.	None Est.	
Sodium Tetraborate	1303-96-4	10mg/m3	5mg/m3	

Engineering Controls:
Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.
Personal Protective Equipment (PPE): Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. At a minimum wear safety glasses with side shields as well as chemically protective gloves and aprons to prevent prolonged or repeated skin contact.
Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.
Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
Work/Hygienic Practices Consistent use of afore-mentioned personal protective equipment is essential in preventing injuries or irritation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granular	Appearance:	Whitish Color	Odor:	Characteristic
pH:	Of 1% Soln – 10+	Vapor Pressure:	NA	Flammability:	Non-flammable
Specific Gravity:	2.1 BD +/-	Vapor Density:	NA	Flash Point:	NIA
Water Solubility:	30% +/- @ 20C	Evaporation Rate:	NA	Auto Ignition Temp:	NIA
Other Solubilities:	Not Determined	Melting Point:	Decomposes	LEL:	Not Determined
% Volatile:	NA	Freeze Point:	NA	UEL:	Not Determined
Boiling Point:	Decomposes	Decomposition Temp:	Not Determined		

10. STABILITY AND REACTIVITY

Stability:	This product is stable at room temperature in closed containers under normal storage and handling conditions. However, avoid temperature extremes.
Conditions to Avoid:	Excessive temperature, contact with any type of reactive chemicals
Hazardous Polymerization:	Hazardous polymerization will not occur.
Chemical Incompatibilities:	Avoid contact with Strong Acids, Strong Alkalis, Oxidizers or any other type of reactive material.
Hazardous Decomposition Products:	There are no known hazardous decomposition products for this material unless the material is burned in which case undetermined evolution of toxic gases may occur.

11. TOXICOLOGICAL INFORMATION

Hazardous Components	CAS No.:	LD50 of Ingredient (Specify Species & Route)	LD50 Dermal of Ingredient (Specify Species)
Sodium Nitrate	7631-99-4	>2,000mg/kg oral rat	>5,000mg/kg fat
Sodium Tetraborate	1303-96-4	4500-6000mg/kg Oral Rat	2000mg/kg Rabbit
		180mg/kg Oral Rat, 4-6gm/kg Oral Human	EC50=<2.0mg/l
Sodium Nitrite	7632-00-0	500mg/kg Oral Rabbit	Irritant
		LC50=5500ug/m3 Inhalation Rat	

Primary Irritant Effects:

Routes of Entry:	Absorbed through skin, Dermal Contact, Eye Contact, Inhalation.
Eye Effects:	Irritation to eyes & possible burning if materials are not immediately rinsed from the eye.
Acute Inhalation Effects:	Might produce irritation to respiratory system.
Skin Effects:	Irritation to skin.
Acute Oral/Ingestion Effects:	Not tested for this blend. Harmful if swallowed.
Chronic Effects on Humans:	No specific studies have been conducted for this specific blend.
Other Toxic Effects on Humans:	No specific studies have been conducted for this specific blend.
Special Remarks- Human Chronic Effects:	No other information for chronic effects on humans.
Carcinogenicity:	IARC, NTP, and OSHA do not list this product or its components as a carcinogen.
Mutagenicity:	No mutagenic effects are known to be applicable for the formulation components of this product.
Teratogenicity:	No studies have been performed for this specific product blend.
Target Organ Statement:	No studies have been conducted for this specific product blend.

12. ECOLOGICAL INFORMATION

Hazardous Components	CAS No.:	LC:50	EC:50
Sodium Nitrite	7632-00-0	12.5mg/l 48 hour Daphnia magna 0.19mg/l 96hr Rainbow Trout	Very toxic to Aquatic organisms.
Sodium Tetraborate	1303-96-4	74mg/l 96hr Daphnia Magna	No data available at publication
Sodium Nitrate	7631-99-4	6,000mg/L 96hr freshwater fish	8600mg/L 24hr Daphnia magna
Special Remarks-Products of biodegradation:	The Component(s) of this product are not subject to rapid biodegradation.		

13. WASTE DISPOSAL CONSIDERATIONS

Disposal Regulatory Requirements:	Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state and local regulations.
Container Cleaning and Disposal:	Triple rinse the empty containers with water before disposal to reconditioned or land fill or garbage.

14. TRANSPORTATION INFORMATION

Proper Shipping Name: Oxidizing Solid, N.O.S.

Contains: Sodium Nitrite/Sodium Nitrate

Hazard Class:
8Marine Pollutant:
NoUN Number:
1760Packing Group:
IIIERG Number:
154DOT/GHS Shipping
Label Pictogram(s):

Special Shipping Notations: None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49, Parts 100-177, IMDG, IATA, EU, United Nations, TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

15. REGULATORY INFORMATION

Hazard Symbol(s):



Hazard Statements:

H302-Harmful if swallowed.

H312-Harmful in contact with skin.

H319-Causes serious eye irritation.

H332-Harmful if inhaled.

H413-May be harmful to aquatic life with long lasting effects.

Safety Phrases:

S3/7/9/49-Keep only in the original container tightly closed in a cool well-ventilated place.

S24/25-Avoid contact with skin and eyes.

S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39-Wear suitable protective clothing, gloves and eye/face protection.

S62-If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

EPA Regulations:

RCRA Hazardous Waste Number:

Product blend is not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.):

Product blend is not classified.

CERCLA Hazardous Substance (40 CFR 302.4):

Product blend is unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b) (4); CWA, Sec. 307 (a),

CAA, Sec. 112 CERCLA Reportable Quantity (RQ):

Contains: Sodium Nitrite 100 lb

SARA 313 Codes: This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

Contains: Sodium Nitrite

SARA Toxic Chemical (40CFR 372.65):

Not listed

Sara 311/312 Code:

Contains: Not Listed

Sara 302/304 Extremely Hazardous Substance (40CFR 355)

Not Listed

Sara 313 SARA EHS (Extremely Hazardous Substance) (40 CFR 355):

Not listed

Threshold Planning Quantity (TPQ):

Contains: Not Listed

OSHA Regulations:

Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A):

Not listed.

OSHA Specifically Regulated Substance (29 CFR 1910.):

Not Listed

State Regulations:

As a product blend, the materials are generally not listed. Check with your local state regulatory board for more detailed information regarding the specific components of this product.

National Regulations:

All components of this product are listed in the U.S. Environmental Protection Agencies, Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).

16. OTHER INFORMATION

SDS Prepared/Reviewed By:

R. Cannon

Date of Preparation:

4/2017

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

USER'S RESPONSIBILITY: The information and recommendations contained herein cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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