# Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CS-401PD

**Product Use:** A Mixture of Water Treatment Application Materials

**Manufactured By:** 



**GHS Pictogram(s)** Corrosive



DOT Label(s) Corrosive



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

Non-Emergency Phone: 916-315-2691 www.CannonWater.com 24 Hour Emergency Response No.: 800-255-3924 (CHEMTEL)

Personal Protective Equipment(s)











**HMIS** 

To the best of our knowledge, this Safety Data Sheet is prepared to comply with US OSHA 29 CFR1910.1200 and other governmental agencies both domestic and foreign. Hazard and precautionary statements are bas 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 CLASSIFICATION/GHS LABEL ELEMENTS

Signal Word GHS Pictogram(s)

"DANGER"

**Hazard Statements** 

H302-Harmful if swallowed. P102-Keep out of reach of children.

Corrosive

H312-Harmful in contact with skin.

P233-Keep container tightly closed. P262-Do not gets in eyes, on skin or on clothing.

H314-Causes severe skin burns and eye damage. H332-Harmful if inhaled.

H413-May cause long lasting harmful effects to aquatic life.

P264-Wash thoroughly after handling. P281-Use personal protective equipment as required.

**Precautionary Statements** 

| 3. COMPOSITION INFORMATION ON INGREDIENTS |          |           |   |              |
|---|----------|-----------|---|--------------|
| Hazardous Components                      | % by Wt. | CAS       | Hazard Statements                                       | GHS Hazard   |
|   |          | Number    | (Section 15)  | Pictogram(s) |
| Sodium Hydroxide                          | 10-20    | 1310-73-2 | H302-Harmful if swallowed.                              |              |
|   |          |           | H314-Causes severe skin burns and eye damage.           |              |
|   |          |           | H332-Harmful if inhaled.                                |              |
|   |          |           | H412-Harmful to aquatic life with long lasting effects. |              |
|   |          |           | H272-May cause or intensify fire; OXIDIZER              |              |
|   |          |           | H301-Toxic if swallowed.                                | $\wedge$     |
| Sodium Nitrite                            | 25-35    | 7632-00-0 | H316-Causes mild skin irritation.                       |              |
|   |          |           | H320-Causes eye irritation                              |              |
|   |          |           | H410-Toxic to aquatic life with long lasting effects.   |              |
| Non Hazardous Ingredient                  | 45-65    |           |   |              |
| Total                                     | 100      |           |   |              |

#### 4. FIRST AID MEASURES

Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Inhalation:

Call a physician if any difficulties persist.

Flush eyes with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid, Eyes:

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

Wash affected areas thoroughly with soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Remove Skin:

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. ACCIDENTIAL 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

**Containment:** vermiculite, oil dry or similar non-reactant absorbent. Solidified product represents no environmental hazard.

**Cleanup:** Accumulate the absorbed materials and dispose of according to federal, state and local regulations.

Environmental Follow applicable OSHA/CERCLA or any other regulations (29 CFR 1910.120) as well as any state or local regulations that

**Precautions:** may apply.

7. HANDLING AND STORAGE

**Precautions for** 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 Do not store in direct sunlight. Store in a tightly closed container. Store in a cool dry, well ventilated area. Do not store in direct sunlight.

**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** Store materials according to all local, state and federal guidelines that are established for non-regulated chemical products.

Requirements:

safe handling:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

Hazardous ComponentsCAS NumberOSHA PEL/TWA STELACGIH TLV/TWA STELSodium Hydroxide1310-73-22 mg/m32 mg/m3

 Sodium Hydroxide
 1310-73-2
 2 mg/m3
 2 mg/m3

 Sodium Nitrite
 7632-00-0
 None Est.
 None Est.

**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

Other

ts 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

Wear protective everylasses or chemical safety goggles, per OSHA eve-and face-protection regulations (29 CFR)

**Personal Protective** Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR **Equipment (PPE):** 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 Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your

**Equipment:** 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: Liquid Odor: Characteristic Appearance: **RED** color pH: 12.00+ Vapor Pressure: Same as water Flammability: Non-flammable Specific Gravity: 1.17+/-Vapor Density: Same as water Flash Point: NIA Water Solubility: **Auto Ignition Temp:** Complete **Evaporation Rate:** 1.00 NIA Other Solubilities: Not Determined **Melting Point:** NA LEL: Not Determined % Volatile: 80%+/-**Freeze Point:** 32°F+/-UEL: Not Determined **Boiling Point:** 212°F +/-**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** 

There are no known hazardous decomposition products for this material unless the material is burned in which

**Products:** case undetermined evolution of toxic gases may occur.

11. TOXICOLOGICAL INFORMATION

LD50 of Ingredient LD50 Dermal of Ingredient **Hazardous Components** CAS No.:

(Specify Species & Route) (Specify Species)

500mg/ 24hr Adult Rabbit-Severe Irritation **Sodium Hydroxide** 1310-73-2 500mg/kg Oral Rabbit

50mg/24hr Eye Rabbit-Severe Irritation

180mg/kg Oral Rat, 4-6gm/kg Oral Human

**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.

**Eve 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.

No specific studies have been conducted for this specific blend. **Chronic Effects on Humans:** 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.

Carcinogenity: 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.

No studies have been performed for this specific product blend. Teratogenicity: **Target Organ Statement:** No studies have been conducted for this specific product blend.

12. ECOLOGICAL INFORMATION

**Hazardous Components** CAS No.: LC:50 EC:50

12.5mg/l 48 hour Daphnia magna **Sodium Nitrite** 7632-00-0 Very toxic to Aquatic organisms. 0.19mg/l 96hr Rainbow Trout

Sodium Hydroxide 1310-73-2 25ppm 24 hour Brook Trout 100ppm 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

DOT/GHS Shipping Corrosive Liquid, N.O.S. **Proper Shipping Name:** Label Pictogram(s):

**Contains:** Sodium Hydroxide/Sodium Nitrite

None

**Hazard Class: Marine Pollutant: UN Number: ERG Number: Packing Group:** 

1760 Ш 154 Nο

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):

**Special Shipping Notations:** 

H302-Harmful if swallowed. **Hazard Statements:** 

H312-Harmful in contact with skin.

H319-Causes severe skin burns and eye damage.

H332-Harmful if inhaled.

H413-May cause long lasting harmful effects to aquatic life.

**Precautionary Statements:** P102+P103-Keep out of reach of children. Read label before use.

P233+P234-Keep container tightly closed. Keep only in original container.

P262-Do not get in eyes, on skin, or on clothing.

P264-Wash thoroughly after handling.

P270-Do not eat, drink or smoke when using this product. P281-Use personal protective equipment as required.

P301+330+331- If swallowed, rinse mouth. Do not induce vomiting.

P304+P341- IF inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338-IF in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present.

## **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 Hydroxide 1,000 lb, Sodium Nitrite 100 lb

SARA 313 Codes: This product is subject to the reporting

requirements of section 313 of the Emergency Planning and Contains: Sodium Nitrite

Community Right to Know Act of 1986 and 40CFR372.

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.

### **16. OTHER INFORMATION**

SDS Reviewed By: R. Cannon, Date of Preparation: 6/2015

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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