

## 1 – PRODUCT IDENTIFICATION

**PRODUCT NAME:**..... 831  
**PRODUCT USE:**..... Potable Water Treatment  
**COMPANY:**..... CH<sub>2</sub>O, Incorporated  
8820 Old Hwy. 99 SE, Tumwater, WA 98501  
360-943-6063, 800-562-6184, (fax) 360-352-4813, www.ch2o.com  
**EMERGENCY PHONE:** ..... (800) 424-9300 (CHEMTREC)  
**SDS DATE:** ..... 3/3/2017 **SHELF LIFE:** 2 Years

## 2 – HAZARDS IDENTIFICATION

**GHS HEALTH CLASSIFICATIONS:** ..... Acute Toxicity Inhalation (4) Skin Irritation (2) Eye Irritation (2A)  
**GHS ENVIRONMENTAL CLASSIFICATIONS:** ..... None  
**GHS PHYSICAL CLASSIFICATIONS:** ..... None



**GHS SIGNAL WORD: WARNING**

**GHS HAZARD STATEMENTS:**

H332: Harmful if inhaled  
H315: Causes skin irritation  
H319: Causes serious eye irritation

**GHS PRECAUTIONARY STATEMENTS:**

**PREVENTION:**

P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.  
P264: Wash skin thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**RESPONSE:**

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P302+352: IF ON SKIN: Wash with plenty of water.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.  
P312: Call a POISON CENTER or doctor if you feel unwell.  
P321: See first aid measures on the SDS.  
P332+313: If skin irritation occurs: Get medical advice/attention.  
P337+313: If eye irritation persists: Get medical advice/attention.  
P362: Take off contaminated clothing.

**STORAGE:**

None

**DISPOSAL:**

None

**HAZARDS NOT OTHERWISE CLASSIFIED:** None known

**UNKNOWN TOXICITY STATEMENT:** 0% of this mixture consists of ingredient(s) of unknown acute toxicity.

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

**TRADE SECRET STATEMENT:** The specific chemical identity and/or the exact percentage of composition has been withheld as a trade secret.

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	OSHA-STEL	OSHA-TWA

### 4 – FIRST-AID MEASURES

**EYES:** Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention if irritation persists. **SKIN:** Wash exposed areas thoroughly with soap and water. Remove contaminated clothing and launder before reuse. If skin feels slippery, continue washing until slick feeling is gone. Contact a physician if irritation persists. **INGESTION:** Give large quantities of water. DO NOT induce vomiting. If vomiting occurs administer additional fluids. Contact a physician for further directions. Never give anything by mouth to an unconscious person. **INHALATION:** Remove individual to fresh air. If breathing is difficult, give oxygen. Contact a physician if irritation persists.

### 5 – FIRE-FIGHTING MEASURES

When responding to a fire involving this product, personal protection equipment must be worn that is appropriate to the chemicals involved in the fire, as well as respiratory protection. If it can be done safely and without risk, stop any release of chemical at the source. Move undamaged containers away from the vicinity of the fire if it can be done safely. Water spray may be used in cooling equipment and containers that have been exposed to heat and/or flame. Avoid spreading burning material with water used for cooling purposes.

**FLASHPOINT:** >200°F

**EXTINGUISHING MEDIA:** Foam, dry chemical, water spray

**SPECIAL FIRE FIGHTING PROCEDURES:** None

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

### 6 – ACCIDENTAL RELEASE MEASURES

**SPILL PROCEDURES:** Only trained personnel equipped with proper protective gear should be permitted in the area. Stop spill at source. Reclaim material if possible for reuse. Containerize contaminated material for disposal. After all visible traces have been removed flush area thoroughly with water.

**WASTE:** Dispose of all waste in accordance with local, state and federal regulations. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination.

### 7 – HANDLING and STORAGE

**HANDLING & STORAGE:** This is a moderately alkaline product. Eye contact will cause severe irritation and/or burns. Prolonged or repeated skin contact will cause irritation and possibly dermatitis and/or burns. Ingestion can cause damage to the stomach and other tissues contacted. Excessive inhalation of product dusts/mists can cause irritation to the respiratory system. Wear impervious gloves and safety glasses or

goggles when handling product. If vapors are present at or above TLV respiratory protection must be worn. Wear additional protective clothing as necessary to minimize contact with product.

## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required, use an approved air-purifying respirator. When exposure guidelines may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**PROTECTIVE CLOTHING:** Chemical safety glasses and impervious gloves.

## 9 – PHYSICAL / CHEMICAL PROPERTIES

- PHYSICAL STATE:** ..... Liquid
- APPEARANCE; Color & Odor:** .. Clear, colorless; Mild
- SPECIFIC GRAVITY:**..... 1.36
- pH, 1%:** .. ..... 10.0-11.0
- SOLUBILITY IN WATER:**..... Complete in water.
- VOLATILITY (wt. %, incl. H<sub>2</sub>O):** . 60-70

## 10 – STABILITY and REACTIVITY

- STABILITY:** Stable
- HAZARDOUS DECOMP.:** None known
- INCOMPATIBILITY:** When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.
- HAZARDOUS REACTIONS:** None known

## 11 – TOXICOLOGICAL INFORMATION

- TOXICOLOGICAL PROPERTIES:** The toxicological properties of this chemical mixture as a whole have not been thoroughly investigated.
- LISTED CARCINOGEN:** This material does not contain any known or suspected carcinogens.
- MEDICAL CONDITION AGGRAVATED:** None known

## 12 – ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE:** The environmental properties of this chemical mixture have not been thoroughly investigated.

## 13 –DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Dispose of all waste product and wastes generated from this product in accordance with local, state, and federal regulations. Assume wastes are hazardous unless characterization demonstrates otherwise. Handle empty drums as if they contain chemical residual until they have been thoroughly decontaminated.

**14 – TRANSPORTATION INFORMATION**

**PROPER SHIPPING NAME:** .....NMFC ITEM 50093/2 LIQUID

**15 - REGULATIONS**

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

**EPA SARA Title III Chemical Listings:**

**Acute:** ..... Yes

**Chronic:** ..... No

**Fire:**..... No

**Pressure:** ..... No

**Reactive:** ..... No

**SARA SECTION 313:** This product DOES NOT contain toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR Part 372.

**16 – OTHER INFORMATION**

**HMIS RATING:**

**HEALTH:** 2,      **FLAMMABILITY:** 0,      **REACTIVITY:** 0,      **PERSONAL PROTECTION:** B

**ADDITIONAL INFORMATION:** None known