

**1 – PRODUCT IDENTIFICATION**

**PRODUCT NAME:**.....BIO-NUTRIENT 2170E  
**PRODUCT USE:**.....Specialty Product  
**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:** .....8/18/2022 **SHELF LIFE:** 2 Years

**2 – HAZARDS IDENTIFICATION**

**GHS HEALTH CLASSIFICATIONS:** ..... Eye Irritation (2B)  
**GHS ENVIRONMENTAL CLASSIFICATIONS:** ..... None  
**GHS PHYSICAL CLASSIFICATIONS:** ..... None



**GHS SIGNAL WORD: WARNING**

**GHS HAZARD STATEMENTS:**

H319: Causes serious eye irritation

**GHS PRECAUTIONARY STATEMENTS:**

**PREVENTION:**

P264: Wash skin thoroughly after handling.

**RESPONSE:**

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+313: If eye irritation persists: Get medical advice/attention.

**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:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray is typically used.

**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 product is a mild irritant. Eye contact will cause minor irritation. Individuals sensitive to alkaline materials may develop dermatitis upon prolonged or repeated contact with product concentrate. Wear impervious gloves and safety glasses or goggles when handling product. If dust/mist residuals are present at or above the 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. Impervious clothing/boots to minimize contact with product and its solutions.

## 9 – PHYSICAL / CHEMICAL PROPERTIES

**PHYSICAL STATE:** ..... Liquid  
**APPEARANCE; Color & Odor:** .. Green-blue; Mild, non-descript  
**SPECIFIC GRAVITY:**..... 1.25  
**pH, 1%:** .. ..... 5-7  
**SOLUBILITY IN WATER:** ..... Complete in water.  
**VOLATILITY (wt. %, incl. H<sub>2</sub>O):** . 70-75

## 10 – STABILITY and REACTIVITY

**STABILITY:** Stable  
**HAZARDOUS DECOMP.:** None known  
**INCOMPATIBILITY:** None known  
**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:** If ingested in large quantities or over a prolonged period of time, may cause methemoglobinemia (a condition that interferes with the oxygen carrying capacity of the blood). Persons with methemoglobinemia may have blue tinge color to lips, nails, and skin. Also they may have a shortness of breath or trouble breathing. Persons more susceptible to methemoglobinemia are the very young (< 3 months), the elderly, those with chronic obstructive pulmonary disease, anemia, coronary artery disease, recent surgery or infection, and those with a genetic deficiency of G-6-PD.

## 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:**



# Safety Data Sheet

Acute: ..... Yes  
Fire: ..... No  
Reactive: ..... No

Chronic: ..... Yes  
Pressure: ..... 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**

**HMS RATING:**

**HEALTH:** 1,      **FLAMMABILITY:** 0,      **REACTIVITY:** 0,      **PERSONAL PROTECTION:** B

**ADDITIONAL INFORMATION:** None known