

## 1 – PRODUCT IDENTIFICATION

**PRODUCT NAME:**.....ORP STANDARD 465mV

**PRODUCT USE:**.....ORP Standard Solution

**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:** .....3/21/2017

**SHELF LIFE:** 1 Year

## 2 – HAZARDS IDENTIFICATION

**GHS HEALTH CLASSIFICATIONS:** ..... Skin Irritation (2) Eye Irritation (2A)

**GHS ENVIRONMENTAL CLASSIFICATIONS:** ..... None

**GHS PHYSICAL CLASSIFICATIONS:** ..... None



**GHS SIGNAL WORD: WARNING**

**GHS HAZARD STATEMENTS:**

H315: Causes skin irritation

H319: Causes serious eye irritation

H290: May be corrosive to metals

**GHS PRECAUTIONARY STATEMENTS:**

**PREVENTION:**

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P234: Keep only in original container.

**RESPONSE:**

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.

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.

P390: Absorb spillage to prevent material damage.

**STORAGE:**

P406: Store in a corrosion resistant container, such as HDPE, or use a compatible inner liner.

**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 an acidic product. Eye contact will cause severe irritation with possible burns. Prolonged or repeated skin contact will cause irritation with possible burns. Ingestion will cause damage to the stomach and other tissue contacted. Excessive inhalation of product dust/mist can cause irritation and/or burns 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:** .. Light greenish purple; Mild

**SPECIFIC GRAVITY:**..... 1.07

**pH, 1%:** .. ..... 2.0-4.0

**SOLUBILITY IN WATER:** ..... Complete in water.

**VOLATILITY (wt. %, incl. H<sub>2</sub>O):** . >95

## 10 – STABILITY and REACTIVITY

**STABILITY:** Stable

**HAZARDOUS DECOMP.:** None known

**INCOMPATIBILITY:** Alkaline Materials.

**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:** .....CORROSIVE LIQUID, ACIDIC, INORGANIC, NOS,

**HAZARD CLASS:** .....8

**UN/NA NUMBER:** .....UN 3264

PACKAGING GROUP : .....III

**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