

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:.....K-PLUS

PRODUCT USE:.....Potassium Based Alkalinity

COMPANY:.....CH₂O, 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:3/22/2017

SHELF LIFE: 2 Years

2 – HAZARDS IDENTIFICATION

GHS HEALTH CLASSIFICATIONS: Acute Toxicity Oral (4)

GHS ENVIRONMENTAL CLASSIFICATIONS: Chronic Aquatic Toxicity (3)

GHS PHYSICAL CLASSIFICATIONS: Substances Corrosive to Metal (1)



GHS SIGNAL WORD: DANGER

GHS HAZARD STATEMENTS:

H290: May be corrosive to metals

H302 H332: Harmful if swallowed or if inhaled

H314: Causes severe skin burns and eye damage

H412: Harmful to aquatic life with long lasting effects

GHS PRECAUTIONARY STATEMENTS:

PREVENTION:

P234: Keep only in original container.

P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

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

RESPONSE:

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P310: Immediately call a POISON CENTER or doctor.

P363: Wash contaminated clothing before reuse.

P390: Absorb spillage to prevent material damage.

STORAGE:

P405: Store locked up.

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

DISPOSAL:

P501: Dispose of contents/container in accordance with local, state, and federal regulations.

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 water fog, foam, dry chemical powder, carbon dioxide. Use extinguishing agent suitable to the surrounding fire.

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 extremely alkaline product. Contact with material will cause severe burns; prolonged contact with material will destroy tissue. Complete safety equipment must be worn when handling. Wear impervious gloves, safety goggles and face shield, as well as protective clothing, boots and respiratory protection as necessary to minimize contact with product. When making solutions add product slowly to the surface of cold water while stirring, thus avoiding violent spattering. Contact with some metals, particularly magnesium, aluminum, and zinc (galvanized), can rapidly generate hydrogen gas, which is explosive.

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: Face shield, impervious gloves and an apron.

9 – PHYSICAL / CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE; Color & Odor: .. Colorless; Odorless
SPECIFIC GRAVITY:..... 1.46
pH, 1%: >12.5
SOLUBILITY IN WATER:..... Complete in water.
VOLATILITY (wt. %, incl. H₂O): . 55

10 – STABILITY and REACTIVITY

STABILITY: Stable
HAZARDOUS DECOMP.: Contact with metals (aluminum, zinc, tin) and sodium tetrahydroborate liberates hydrogen gas.
INCOMPATIBILITY: Oxidizing agents, acids, phosphorous, aluminum, zinc, tin. Initiates or catalyzes violent polymerization of acetaldehyde, acrolein or acrylonitrile.
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.

NOTE: This chemical mixture and its use solutions are toxic to fish. Any discharge to the environment must be made only in accordance with an NPDES permit.

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:POTASSIUM HYDROXIDE

HAZARD CLASS:8

UN/NA NUMBER:UN 1814

PACKAGING GROUP :II

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: 3, **FLAMMABILITY:** 0, **REACTIVITY:** 0, **PERSONAL PROTECTION:** D

ADDITIONAL INFORMATION: None known