

EMS Hydro+

ACID FREE pH REDUCING WATER TREATMENT



- 100% Acid Free
- Non-Corrosive
- Non-Skin Irritant
- Non- D.O.T. Regulated
- Balances pH
- No Secondary Containment
- Non-Mutagenic
- Outperforms Hydrochloric
- No Disposal Restrictions

Until now, the only effective way to reduce the pH of your reclaimed water has been to use harsh mineral acids. While these acids lower the pH of the water you want to discharge, they pose significant challenges in their storage and use.

Hydro+ safely lowers pH in water without the use of harsh mineral acids. This is done through the power of SynTech[®], the world's only synthetic acid. SynTech carries a triple-zero HMIS score, is rated non-corrosive, non-fuming, 100% biodegradable, non-mutagenic to fish and wildlife.

With that said, SynTech outperforms hydrochloric acid formulations in a wide variety of industries every day. In fact, SynTech formulations have proven to be 15% faster dissolving calcium carbonate than Muriatic acid while posing no danger to the truck, the person washing it or the environment. Its unmatched safety profitable earns the recommendation of industry giants Mack, Oshkosh, McNeilus and many others -- a claim no other company can make.

Hydro+ is bound to make an equally large impact on the waste water industry. Not only is less SynTech needed to get the desired pH level than these dangerous acids, it does so without any smell or dangerous fumes. Hydro+ has been proven to pose no inhalation risk, exceeds all D.O. T. corrosion and EPA requirements and, as such, requires no secondary containment.

Hydro+ can be simply added to your water or become part of a self-monitoring application system you may currently use. And because SynTech vehicle washes send neutral pH downstream with a simple rinse, Hydro+ can provide the only balancing you will need at your plants.



Technical Data

BIODEGRADABLE: Yes/100%
FORM: Liquid
ODOR: Mild Soapy Odor
COLD STABILITY: -16° F
DETERGENCY: Excellent
PHOSPHATES: None
WETTING ABILITY: Excellent

FLAMMABILITY: Non-Flammable
BOILING POINT: 253° F
SOLUBILITY IN WATER: 100%
VOCs: None
VOLATILE BY VOLUME: N/A
CARCINOGENS: None
SHELF LIFE: 1 Year

Dilution Specification

Please refer to the product label.

Toxicity Studies

Toxicity Limits: Test Procedure OECD 202, 48 hr. LC 50 and LD 50 (rat oral: NON-TOXIC)

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals: NON-MUTAGENIC

Dermal Irritation & Corrosion

A modified Draize method was used as described in OECD Guidelines for the Testing of Chemicals Sec. 404 and complies with the requirements of OECD Principles of GLP, Annex revised as of July 1992.

Hydro+ is classified as a "Mild Skin Irritant".

Biodegradation & Aquatic Safety

Test Procedure: Hach Reactor Digestion method for Waste Water and Sea Water. Hach Reactor Digestion Method is a semi-micro adaptation of the Standard Methods.

Hydro+ is 100% Biodegradable.

Classifications & Approvals

D.O.T., IMO, IATA, IMDG - Non-Regulated

TDG - Non-Regulated to and through Canada

SARA 313 311/312 - This product does not contain any ingredients that are subject to the reporting requirements.

California Prop 65 - This product does not contain any ingredients known to the state of California to cause cancer, birth defects or any other reproductive harm.

FDA - Recognized as Safe (GRAS)

Storage and Handling

Hydro+ has a shelf life of more than one year. Product is freeze/thaw stable. Keep container closed when not in use. Safety glasses are suggested when handling this product. No special gloves or protective equipment are required. Due to the product's low pH, aluminum piping and fittings should not be used. Consult your authorized EMS representative for tank, piping, valve, hose coupling and fitting recommendations.

Hydro+ is typically sold in 275 gallon totes but can be packaged in smaller containers as well as bulk delivery. Rinse empty container and discard as per federal, state and local regulations.

DOT STATEMENT

Non-D.O.T. Regulated/Non-D.O.T. Hazardous
EXEMPT as per 49 CFR 173.154(d) (2) <6.25 mmpy

Additional Studies & Results: When tested, Hydro+ showed no potential for the generation of Carbon Dioxide under NIOSH 7903 OSHA & ACGIH testing protocols governing workplace environments.