

pHlexHAR®

Technical Data Sheet

LOW pH REPLACEMENT FOR HYDROCHLORIC ACID

- 100% Acid Free
- Non-Corrosive
- pH Reducer
- Descaler
- Rust Remover
- Non-Fuming
- Non-D.O.T. Regulated
- 100% Biodegradable
- Safe on Eyes and Skin
- Food GRAS
- Powerful Descaler
- Non-Toxic

Until now, the food industry has been forced to use dangerous acids and caustics for peeling, cleaning and pH adjustment. The pHlexaPeel line of products employs the most advanced developments in green technologies to replace those dangerous chemicals with safe yet potent replacements.

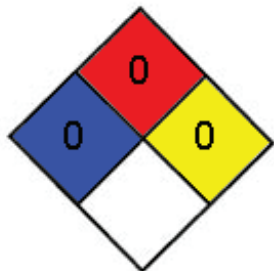
pHlexHAR® has a pH of zero and the ability to descale and adjust pH with the strength of hydrochloric acid it replaces. pHlexHAR® also easily removes rust without damaging the surface as acid rust removers can. Still, all that potency comes with a triple-zero HMIS score, which makes it safe on skin, eyes and equipment.

Because the hydrogen in pHlexHAR® it has a stronger bond to the H⁺ ion than those in acids, it has a slower spending nature. This makes pHlexHAR® an excellent line cleaner. pHlexHAR® contains no acids and leaves no minerals or salts behind. And because pHlexHAR® neutralizes with water, a caustic rinse step is not required. The power behind pHlexHAR® is patented and only available from pHlexaPeel products.

pHlexHAR® is 100% readily biodegradable and is guaranteed to meet or exceed the EPA's requirements as set forth in the Design for Environment screening process. That includes 100% biodegradation in less than 10 days. Like all pHlexaPeel products, pHlexHAR® can be shipped common carrier and requires no secondary containment.

pHlexHAR® boasts LC50 and LD50 scores well below regulated toxicity limits and many times less than hydrochloric acid.

pHlexHAR® is based on proven technology which carries NSF certification codes A1, A2, G1, G5, & C1. NSF certification pending.



Technical Data

BIODEGRADABLE: Yes/100%	FLAMMABILITY: Non-Flammable
FORM: Liquid	BOILING POINT: 212° F
ODOR: Mild	SOLUBILITY IN WATER: 100%
COLD STABILITY: -26° F	VOCs: None
DETERGENCY: Moderate	VOLATILE BY VOLUME: N/A
PHOSPHATES: None	CARCINOGENS: None
WETTING ABILITY: Excellent	SHELF LIFE: 1 Year

Common Uses

pHlex HAR® is a direct replacement for muriatic acid

DOT STATEMENT

Non-D.O.T. Regulated/Non-D.O.T. Hazardous
EXEMPT as per 49 CFR 173.154(d) (1) <6.25 mmpy

D. O. T. classifies a material to be corrosive and hazardous if it has a corrosion rate that exceeds 6.25 mmpy on SAE C1020 carbon steel.

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.

pHlex HAR® is classified as a "Very 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.

pHlex HAR® is 100% Biodegradable.

Classifications & Approvals

D.O.T - 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 - Approved as Safe (GRAS)

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA

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