

pHlexCR®

Technical Data Sheet

HIGH pH REPLACEMENT FOR CAUSTIC

- Caustic Free Cleaning
- Non-Corrosive
- Non-Destructive to Eyes and Skin
- Non-Fuming
- Non-D.O.T. Regulated
- 100% Biodegradable
- Sludge Removal
- Food GRAS
- Raise pH in Any Liquid
- Non-Toxic
- No Exothermic Reaction
- Kosher Pareve

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.

pHlexCR® has a pH of 13 and the ability to raise the pH of any liquid, clean and degrease with the potency of high pH cleaners, allowing you to replace these dangerous chemicals. pHlexCR® carries a triple-zero HMIS score, is non-toxic, non-fuming, safe on skin, eyes and equipment. pHlexCR® can be blended with water safely with no exo-thermic reaction.

Because pHlexCR® contains no traditional hydroxides, it does not leave a residue of salts after a cleaning. And because pHlex CR® neutralizes with water, there is no need for a follow up acid wash.

pHlexCR® has no BODs and almost no CODs. pHlexCR® is 100% readily biodegradable in less than 10 days.

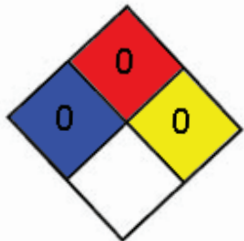
Like all pHlexaPeel products, pHlexCR® can be shipped common carrier and requires no secondary containment.

pHlexCR® boasts LC50 and LD50 scores well below regulated toxicity limits and many times less than caustics.

pHlexCR® is Kosher Pareve.

pHlexCR® is also available offering an even more powerful option of this safe cleaner.

The formula and its ingredients meet or exceed the EPA's Safer Choice program requirements for both the safety of the environment and the user.



For sales or technical support call 816.867.2054 or visit www.heartlandenergygroup.net

Technical Data

BIODEGRADABLE:
Yes/100% FORM: Liquid
ODOR: Mild
COLD STABILITY: -26° F
DETERGENCY: Moderate
PHOSPHATES: None
WETTING ABILITY: Excellent

FLAMMABILITY: Non-Flammable
BOILING POINT: 212° 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.

pHlex CR® is classified as a "practically non-irritant (negligible)".

pHlex CR® is classified as a "slightly non-irritating".

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 CR® and pHlex CR®2 are 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.

Kosher
Kosher Pareve

Common Uses

pHlex CR® is a direct replacement for 40% sodium hydroxide.

pHlex CR® is a direct replacement for 60% sodium hydroxide.

Either pHlex CR® product can be diluted safely with water as needed to replace caustics used in a variety of industries. Blending pHlex CR® products with water does not create an exothermic reaction and will not flash.

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 or 7075- Y6 Aluminum.



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