

# Ener-Terra HF

All Purpose Industrial Cleaner for the removal of water scale, silica scale, and oxidation on metal.

- Biodegradable • Non-Caustic • Non-Acid • Non-Corrosive • No Fumes
- No VOC's

## Description

ENER-TERRA HF is a powerful yet completely biodegradable, safe non-corrosive All Purpose industrial Hydrofluoric acid replacement cleaner used in the oil and gas industry for removal of tough water and silica scale, organic soil and rust stains. Unlike other products that remove scale which cause dangerous corrosive vapors, ENER-TERRA HF has no harsh fumes or \*VOC's making it very safe to use.

*20 litre, 210 litre, 1000 litre totes*

## Product Features

- Effective removal of calcium, limescale and silicate deposits
- Absolutely no corrosive fumes
- Biodegradable, Environmentally Safe
- Safer to use than HF acid, eliminates the need to file a risk management plan as required by OHS

## Applications

Specialized descaling of Aluminosilicates	Oxidation removal
Aluminum brightening	Transportation Cleaning System
Descaling	

## Used On

Stainless Steel	Tanks
Pipes	Aluminum

## Physical Properties

Appearance	Clear Liquid
Odour	None
Dirt Penetration	Soil Suspension Properties
Specific Gravity	1.15 +/- .01
Solubility in Water	Complete

HF (Hydrofluoric Acid) is not good for descaling whereas ENER-TERRA HF is very effective particularly on silicate scale (very predominant in the oilfields). Using HF to dissolve scale containing calcium carbonate will fizz momentarily then stops, calcium fluoride coats the scale crystals and blocks further dissolution. The same application using ENER-TERRA HF continues to fizz until the carbonate scale is completely dissolved or the product is exhausted to where dissolution cannot take place hence the recommendation to circulate descalers to maximize the dissolution of scale. ENER-TERRA HF contains no free fluorine, is non-corrosive to the skin (classed as a mild irritant), it does not bio-accumulate whereas (HF does) If you do ingest ENER-TERRA HF, it will be eliminated naturally, HF obviously does not. ENER-TERRA HF does not exhibit any of the undesirable properties and hazards of HF.

\*VOC's (VOLATILE ORGANIC COMPOUNDS): In addition to contributing to ozone and smog formation, VOCs can have direct adverse effects on human health. Many VOCs have been classified as toxic and carcinogenic and it is therefore unsafe to be exposed to these compounds in large quantities or over extended periods of time.

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