CAFLON Safe RHC2

Scale dissolver

Overview

- CAFLON Safe RHC2 is part of the "Environmentally Responsible" modified acid product line that minimizes the hazards, corrosion rates, and negative HS&E properties of HCl, while maintaining the positive aspects, such as solubilizing ability and reactivity rates. Utilized where more aggressive removal of formation, scale, or mineral deposits is required with ultra-low corrosion.
- CAFLON Safe RHC2 is a strong, low-fuming acid alternative.

Application

- **CAFLON Safe RHC6** is supplied as a concentrate and is typically diluted 1:1 with water at site (fresh or seawater)
- Chemical cleaning/scale dissolution in pipes, pipe-lines, cooling towers, boilers, heat exchangers, fire-water systems, seawater inlets, tubes, equipment, mill-scale etc.
- For removal of calcite, oxides (rust), mill-scale, mix-scale (mineral scale + hydrocarbons), and seawater scale in pipes, tubes, cooling towers, boilers, heat-exchangers, fire-water systems, during commissioning and maintenance.

Value Add/Benefits

- Dissolves typical acid soluble scale (carbonates and iron oxides/rust, etc.) very efficiently
- Ultra-low metal corrosion
- Non-corrosive to skin tissue (HS&E safe)
- Clear: ultra-low fuming / vapor pressure
- Easy to deploy
- Similar solubilizing abilities as ≈ 15% HCl
- Class 1 acid package

Standard Procedure (principle):

- 1. Prior to deploying the chemical, ensure that the system (chemical tank, hoses, etc.) has been checked for leakages.
- 2. Add the concentrate or a pre-mixed solution of the chemical into the chemical tank (circulation tank) to the desired level, and use the chemical in the tank to fill the pipe or equipment.
- 3. Alternatively, the chemical can be mixed 1:1 with water in the chemical tank
- 4. No heating is required (but can be used) to activate the chemical.
- 5. Open the valves and start the pump.
- 6. Circulate for 90 to 180 minutes (or longer if required).
- 7. Drain, flush, and purge the pipe/equipment.
- 8. Repeat if necessary.



Specifications

• Appearance: Clear amber liquid

• Specific Gravity: 1.15 ±0.02

Freezing Point: -30°C

Boiling Point: > 100°C

• pH: < 1

• Solubility: 100% in water

• Thermal Stability: 90°C

• Shelf Life: >1 year

Dissolving Activity

Solubilizing ability of undiluted **CAFLON Safe RHC6**:

• CaMg(CO³)2 Solubility: ≈ 195 kg/m³

CaCO³ Solubility: ≈ 220 kg/m³

• FeS ≈ 165 kg/m³

Chemical Cleaning

CAFLON Safe RHC6 is easy to deploy, practical, fast acting, and very efficient. The chemical is used as a concentrate (representing ≈ 15 % HCl equivalent), or diluted 1:1 with water (fresh/seawater) and added to a chemical cleaning unit on site and spotted or circulated until the surface is clean.

A chemical cleaning unit is any suitable system or arrangement that has a tank for the chemicals, hoses, and pump for deploying the chemical.

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