

PRODUCT FACTSHEET



CrestoPro™ G474

CrestoPro™ G474 is an improved deposit control agent developed for the control of amorphous silica scale at the best efficiency, alongside other high temperature applications. CrestoPro™ G474 effectively disrupts the silica deposition process and outperforms other existing and conventional silica inhibitors and antiscalants.

1.0 Benefits

CrestoPro™ G474 provides its user with the following benefits:

- A. Excellent reduction of silica deposition by 90%.
- B. Effectively disperse metals like iron oxides that may be present in the brine.
- C. Proper protection for key process equipment, including those that involve a binary system design.
- D. Prevents blockage of reinjection lines and wells
- E. Cost-effective operations.

2.0 Physical Properties

Physical and Chemical Data

Appearance	Clear yellow liquid
Odour	Slight
pH (Undiluted @ 20°C)	8.0-9.0
Specific gravity (@ 20°C)	1.25-1.30
Viscosity (mm ² /sec) (@ 25°C)	Max 100
Solubility	Completely miscible in water Miscible in 50% caustic soda

3.0 Chemical Compatibility and Thermal Stability

CrestoPro™ G474 is not affected by chlorine or other oxidizing biocides under normal use conditions. It has been tested to be compatible with long chain nitrogen compounds, aliphatic amines and quaternary ammonium compounds. The typical dosage range is recommended to be 0.5-10 ppm. CrestoPro™ G474, under differential scanning calorimetry (DSC), is thermally stable above temperatures of 250°C.

4.0 Material Compatibility

CrestoPro™ G474 is compatible and recommended to use with SS, MS, PE, PVC, PP and Teflon.

5.0 Logistics

Transport Classification	Not classified for transport
Packaging	250 kg plastic drum

6.0 Toxicology / Ecological Data

Acute Toxicity (Oral LD ₅₀) (Rat)	> 5000 mg/kg
Eye Contact	Non-irritant.
Skin Contact	Non-irritant. Not a skin sensitizer.
Acute Toxicity (LC ₅₀ @ 96; Fish: <i>Onchorhynchus mykiss</i>)	> 2500 mg/L
Acute Toxicity (EC ₅₀ @ 48 HRS; Aquatic Invertebrates: <i>Daphnia magna</i>)	> 1000 mg/L
Acute Toxicity (EC ₅₀ @ 72 HRS; Aquatic Plants: <i>Scenedesmus subspicatus</i>)	> 100 mg/L

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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