MID SOUTH CHEMICAL CO. INC **PRODUCT BULLETIN**

Iron Sulfide Dissolver

Description: Mid South Chemical's **Iron Sulfide Dissolver** is a 75% aqueous solution of THPS (TetrakisHydroxymethylPhosponium Sulfate). Its corrosion inhibiting properties are linked to its ability to dissolve iron sulfide at low concentrations. **Iron Sulfide Dissolver** has an unusually benign toxicity profile to both humans and environmental species, and has been shown to be readily biodegradable. It can also be easily deactivated under controlled conditions. When discharged from the treated system results in dilution of **Iron Sulfide Dissolver** to less than 1ppm, it degrades within minutes to a virtually non-toxic molecule, THPO. These properties result in safer handling and reduced environmental impact: two important factors influencing selection of corrosion inhibitors. **Iron Sulfide Dissolver** is miscible in all properties with most types of water, including seawater, and is compatible with a wide range of water treatment additives. It has a very low freeze point (-31C) that makes it ideal for application in colder climates. Concurrent dosing with surfactants or Mid South's **PowerSperse,** to solubilize inorganic salts can aid THPS penetration and removal of surface deposits that contribute to corrosion.

Advantages:

* Dissolution of iron sulfide at low concentrations
* Stable and effective over pH range 3-10
* Excellent environmental profile
* Fully miscible with all types of water
* Quick and simple on-site analysis procedure
* Penetrates and removes deposits from oilfield process water systems

Directions for use: This product can be fed directly from the container. For oil field applications the feed rates will vary. Initial shock treatment can range from 70-700 ppm with subsequent dosages of 30-200 ppm, drilling muds from 70-3000 ppm, oil and gas pipelines typically at 10-70 ppm.

Product Data:

* Active Content……75% THPS
* Appearance……..Clear to slightly Hazy colorless liquid
* pH…… 3.0 – 4.0
* SG (25C)…….. 1.36 – 1.39
* Viscosity…….. 30cps
* Flash Point……Non-flammable
* Solubility in Water……Miscible in all proportions with seawater, freshwater and oilfield produced water

TEST: **Iron Sulfide Dissolver** concentrations in process water can be quickly determined by a simple and inexpensive titration procedure which can be used on site as well as in the laboratory.

First Aid: EYES: Flush immediately with large amounts of water for 15 minutes and get immediate medical attention. SKIN: Wash with soap and water, remove contaminated clothing, get medical attention, prolonged contact may cause allergic reactions in some individuals. SWALLOWED: Promptly drink large quantities of water. Do not induce vomiting, avoid alcohol and contact a physician immediately.

Available Packaging: * 55 gallon drum.....600 lbs * Tote……3086 lbs

MID SOUTH CHEMICAL CO. INC P O BOX 116, 5681 HWY 4, RINGGOLD, LA 71068
(318) 894-7301 FAX (318) 894-9532 email: info@midsouthchemical.com