

## THPS (Tetrakis-Hydroxymethyl-Phosphonium Sulfate)

THPS is a biocide effective against micro pest in industrial cooling systems, oil field operations, and paper-making industry. The advantage is it will soon degrade to a nontoxic substance immediately after use. In 1997, the product passed the attestation in the United States of America and was formally put into use in the field of environmental protection. In the same year, it was awarded with American Green Chemicals Award.

### Typical Physical Properties

Common Name	THPS	Chemical Formula	Blend
Appearance	Clear Colourless Liquid	Solubility in Water @ 20 °C	Miscible
Specific Gravity	1.35 - 1.45	pH	3.0 - 5.0

### Application

THPS exhibits excellent activity against problem microorganisms. In particular it is extremely effective against sulphate reducing bacteria, a major cause of hydrogen sulphide souring and corrosion. Formulations containing THPS may be used in many applications where microbiological contamination is present and they have extensive use in enhanced oil recovery injection water systems, topside recovery systems, pipeline protection and storage. THPS produces a rapid kill against a broad spectrum of bacteria and when suitably formulated with a surfactant it readily eradicates unwanted biofilms. The excellent toxicity profile of THPS and ease of deactivation to a virtually non toxic substance makes it an ideal biocide to use when cooling water is discharged into ecologically sensitive waters.

### Recommended Handling

All personnel handling this material must handle it as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet (MSDS).

### Packaging and Storage

Packed in 55 USG HDPE drum or 1000 Litre IBC (Tote Tank).

Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and /or stacking.

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