



PRODUCT DATA SHEET

v. 082604

DTEA IITM

DTEA IITM is a powerful organic penetrating agent and organic deposit dispersant for use in industrial water systems. AMSA Inc. is an OEM supplier and manufacturer of the DTEA IITM product.

Stand-Alone Use: Use of DTEA IITM as a stand alone treatment in place of a corrosion inhibitor and scale control is not generally recommended but is recommended to be used in conjunction with a scale and corrosion program and it has been found to be sufficient in many systems.

Formulations: DTEA IITM select and proprietary formulations which provide corrosion inhibition, scale control, and inorganic dispersion control has been developed by distributors and customers of AMSA Inc. AMSA Inc. can provide assistance to its customers but it has intentionally left such formulation development to its customers as a value-added niche. AMSA Inc. is an OEM supplier and manufacturer of the DTEA IITM product.

DTEA technology is powerful as it disperses hydrocarbon and organic contaminants for easy removal from the system. Final removal of deposits is accomplished by blow-down, side stream filtration, or diversion to waste treatment plant. As DTEA IITM has a quick degradation rate, and because it can be totally degraded prior to release with select cooling tower treatments now being commonly used, it has an environmental friendly profile.

In addition, it will promote and maintain the overall cleanliness of heat transfer surfaces, reduce corrosion, and minimize the use of biocides.

Metal Corrosion inhibition: It is especially useful for yellow metals (brass, copper) as well as aluminum, carbon steel, stainless steel, mild steel, and select alloys. It is not recommended as a stand-alone corrosion inhibitor but rather it is recommended to supplement existing corrosion inhibitors. If it is to be used as a stand-alone corrosion inhibitor, it is recommended that corrosion coupons and instantaneous corrosion testing methods be used to determine if any other corrosion inhibitors can be eliminated. Its corrosion inhibition mode of action is based on its film forming properties and its control of organic deposition.

Biocide Demand & Use: The reduction of biocide use and related chemicals is an additional benefit to the need to have environmentally friendly technologies in our plants.

DTEA IITM can be applied with both oxidizing and non-oxidizing microbiocides to disperse deposits into the water where they will be more susceptible to the toxic effects of applied microbiocides.

Please note that DTEA has been shown, in other formulations, to exhibit antimicrobial effects but such formulations are not sold in the USA. *It is sold and used as a broad spectrum biocide in those regions where USA EPA registration or similar regulations allow its use.*

Regulatory & Handling Considerations: *DTEA IITM* is biodegradable (OECD guidelines), not approved for direct discharge to rivers and waterways, and is considered to be toxic to fish at concentrated use levels as this or any other material which is surface active.

It contains no heavy metals or any regulated chemicals as it is composed of an all organic active ingredient chemistry and formulated in water.

It requires no special handling other than typical handling procedures required of soap, detergent, or general non-corrosive chelant type of chemicals. Shipping is not regulated as per DOT standards. Spill cleanup is simple and easy with disposal considerations.

Features

- Penetrates, disperses and eliminates organic mass from cooling water systems
- Reduces corrosion by keeping metal surfaces free of organic deposition
- Disperses hydrocarbon foulants in cooling water systems
- Increases biocidal effectiveness and lowers their use levels and subsequent costs (use levels of glutaraldehyde in the oil field are reduced by 5X)
- Extends oxidizer residual, thereby decreasing use & costs of oxidizers biocides
- Not affected by high pH
- Biodegradable
- Persistent in closed systems with a friendly degradation profile in open systems which makes this an ideal choice in difficult to manage waste streams
- Excellent compatibility with cooling water treatment programs with the exception of glutaraldehyde (call us before using with glutaraldehyde)
- Not affected by high organic load
- Not affected by high ammonia, high sulfur, and other strong nucleophiles
- Excellent freeze-thaw properties requiring no re-mix or product separation
- Allows use in high re-cycle, high solids systems

PRODUCT DESCRIPTION

Physical State	-	Liquid
Color	-	Off white to light amber
pH	-	6 - 7
Density	-	8.3 lbs./gallon
Clarity	-	slightly cloudy

DOSAGE

Used as a water solution that should be fed or it can be diluted with water to a point of good agitation to insure proper dispersal in the system. Typical dosage will be between 50 & 100 ppm (1/2 to 1 gallon per 10,000 gallons) based on system total volume. Very large systems (1 million gallons or greater) require 10 – 25 ppm of product due to the high system volume to treatment surface area ratio. For additional information and cost effective use of product, contact AMSA Inc. for details.

HANDLING

DTEA IITM is a concentrated organic chemical. Do not take internally. Avoid contact with skin and eyes. Should contact occur, flush promptly with water. If any discomfort occurs, consult a physician. Read relevant Material Safety Data Sheet before handling this product.

PACKAGING

DTEA IITM is packaged in bulk, 55 gallon (net 450 pounds) non returnable near-clear plastic drums, or in 30 and 15 gallon near-clear plastic drums and near-clear 5 gallon pails (net 40.5 pounds).



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