



For Geothermal Cooling Systems

BCP™ 5030 is a multi-purpose chemical with several key uses.

In geothermal power plant cooling systems which experience sulfur fouling, online BCP™ 5030 treatments destabilize and disperse existing sulfur deposits, resulting in their removal from critical equipment surfaces. Once a system has been cleaned with BCP™ 5030, continued maintenance treatments will prevent the formation of new sulfur deposits.

BCP™ 5030 is also a powerful organic deposit cleaner, penetrant, and dispersant, and is widely used with oxidizing and non-oxidizing biocides in industrial water systems to provide a superior Biofilm Control Program.

BCP™ 5030 is an effective yellow metal corrosion inhibitor.

Product Description

Ingredients:	DTEA II™
Solvent:	Water only
Physical State:	Liquid solution
Color:	Pale yellow-brown to light amber
Clarity:	Can be slightly cloudy
pH:	6 – 7
Density:	8.3 lb/gallon
Shelf life:	1 year minimum

Packaging

BCP™ 5030 liquid formulations are packaged in:

- 275 gallon totes
- 55 gallon non-returnable near-clear plastic drums

Shipping is not regulated as per DOT standards. Ships as Class 55.



Features

- Penetrates and removes inorganic sulfur deposits from condenser and cooling water system surfaces
- Not affected by hydrogen sulfide, ammonia or other strong nucleophiles
- Not affected by high pH; works best for sulfur removal at and above pH 8.0
- Penetrates, disperses and removes organic deposits from cooling water system surfaces
- Increases biocide effectiveness, reducing biocide use levels and subsequent costs
- Biodegradable; persistent in closed systems, with a friendly degradation profile in open systems, making this an ideal choice for difficult to manage waste streams
- Excellent compatibility with standard cooling water treatment programs
- Reduces corrosion by direct chemical inhibition, and by keeping metal surfaces free of deposits



- Excellent freeze-thaw properties; no product separation if freezing does occur

NOTE: BCP™ 5030 does not dissolve existing sulfur deposits. BCP™ 5030 causes disaggregation of the deposits, producing particulate solids ranging in size from small particles to large pieces several centimeters in length and width. Large deposit pieces may accumulate in the system following cleaning, and may need to be flushed from the system. Using BCP™ 5030 in maintenance mode to prevent such deposition in the first place is the best use of BCP™ 5030.

Application Modes and Dosing Levels

BCP™ 5030 may be used in two modes, cleanup dosing in a fouled system and maintenance dosing in a clean system.

BCP™ 5030 may be added directly to the geothermal cooling water system, or co-fed with water at a point of good agitation to insure proper dispersal in the system. Typical cleanup dosage is 50 - 200 ppm (1/2 to 2 gallons of BCP™ 5030 per 10,000 gallons system volume). Maintenance dosing levels and frequencies depend on system conditions.

Environmental Benefits

- Low persistence in the environment (discharge permit benefit)
- This product is expected to be rapidly biodegradable based on similar products performance (permit discharge benefit)

Regulatory

BCP™ 5030 is biodegradable (OECD guidelines and aquatic use profile is in keeping with modern day expectations of water treatment chemicals for ecological friendliness. For comparison purposes, BCP™ 5030 is 6X to 60X safer* in aquatic toxicity testing than the chemical called ADBAC (a quat biocide)). Note: BCP™ 5030 is not a quat. Therefore, the negative aspects of quats do not apply.

*The aquatic toxicity profile is provided for general comparative purposes only and does not imply, warrant, or state to use it in any manner not in keeping with local regulations.

Handling Considerations

Please refer to SDS (formerly called MSDS) before handling this product. BCP™ products require handling that conforms to typical procedures required of strong industrial strength cleaners, detergents, and soaps.



AMSA, Inc.™
4714 S. Garfield Rd. • Auburn, Michigan, USA • 48611
Tel: (989) 662-0377 Fax: (989) 662-6461
sales@amsainc.com
www.amsainc.com

AMSA, Inc. manufactures DTEA II™ Chemistry.
AMSA, Inc. exclusively serves industrial water treatment service companies.