

3D TRASAR® 3DT226

Cooling Water Corrosion Inhibitor



An Ecolab Company

Product Bulletin

PRODUCT DESCRIPTION AND APPLICATION

3D TRASAR products are part of an innovative water treatment program that uses proven technology to prevent operational problems. 3D TRASAR compensates for both routine and special causes of system variation. 3D TRASAR programs provide a return on your investment through their unique control and diagnostic capabilities.

3D TRASAR 3DT226 is a multifunctional blend of scale and corrosion inhibitors for use in cooling systems, in soft water areas. The program is suitable for waters with lower pH levels (7-8) and soft waters. **3DT226** incorporates Nalco patented 3D TRASAR Technology for the direct, real-time dosage control.

Cathodic corrosion inhibition is effected in two ways: the formation of a controlled zinc hydroxide and/or zinc/calcium film phosphate, at the high pH of the cathode. Anodic passivation is achieved by the reaction of orthophosphate with iron that helps create an iron phosphate film at the anode (Gamma-Fe₂O₃ occurs at high PO₄ levels only). Scale formation is inhibited using both the organophosphate and a special polymer that stabilizes zinc, calcium and phosphate beyond their solubility limits. This polymer is also an excellent iron dispersant.

PHYSICAL & CHEMICAL PROPERTIES

Form	Liquid
Color	Clear yellow
Odor	Acidic
Specific Gravity @25°C	1.24
Viscosity @25°C	34.5 mPas
pH (Neat)	1.8

Freezing Point	-10.2°C
Freeze-thaw Recovery	Complete
Flash Point (PMCC)	None
Boiling Point	>100°C
Solubility in Water	Complete

NOTE: These physical properties are typical values for this product. Please refer to the Material Safety Data Sheet (MSDS) for the most current data and complete information.

ACTIVE CONSTITUENTS

Ingredients are considered proprietary. See the MSDS for information on regarding hazardous components.

REGULATORY APPROVALS

Please refer to the MSDS, SECTION 15, for the most recent information on approvals.

MATERIALS OF COMPATIBILITY

<u>Compatible</u>	<u>Not Compatible</u>
Buna-N	Aluminum
CPVC	Brass
EPDM	Carbon Steel
HDPE	Coated Steel Drum
(blue plastic drum)	(phenolic, RCC*635)
Hypalon	Nickel
Neoprene	Polyurethane
Plasite 4300	Stainless Steel 304
Plasite 7122	Stainless Steel 316
Polyethylene	
Polypropylene	
Teflon	
Vinyl	
Viton	

See your local Nalco representative for compatibility information.

DOSAGE AND FEEDING

3DT226 should be fed continuously to ensure that adequate levels of product are maintained at all times. Slug feeding is not acceptable.

Underfeeding will lead to excessive corrosion or calcium carbonate scaling.

Overfeeding will result in phosphate scaling. 3D TRASAR technology provides the continuous control and monitoring.

3DT226 must be fed through suitable feed equipment. Do not dilute or mix the product with other chemicals.

For complete dosage, feeding points and feeding equipment, consult your Nalco representative.

ENVIRONMENTAL AND TOXICITY DATA

Please refer to the MSDS, SECTIONS 11 and 12, for the most current data.

SAFETY AND HANDLING

3DT226 is very acidic and can cause eye injury and skin irritation. Wear safety glasses and rubber gloves when handling. Do not get in eyes, or onto skin or clothing. Do not take internally or breathe any mist or vapor.

In case of contact:

- **Eyes** – Immediately flood with water and rinse for at least 15 minutes
- **Skin** – Immediately flood with water and rinse for at least 15 minutes
- **Ingestion** – **DO NOT** induce vomiting. Give large amounts of water to drink and seek medical attention.
- **Inhalation** – Remove to fresh air.

Please refer to the MSDS, SECTIONS 3 and 8, for the most current data.

STORAGE

3DT226 should be stored in a location where the product will not freeze. If freezing occurs, move the product to a warm area to thaw.

Recommended in-plant storage is twelve months.

Please refer to the MSDS, SECTION 7, for the most current data.

REMARKS

If you need assistance or more information on this product, please call your nearest Nalco Representative. For more news about Nalco Company, visit our website at www.nalco.com.

For **Medical and Transportation Emergencies** involving Nalco products, please see the Material Safety Data Sheet for the phone number.