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PRODUCT NAME

NALCO[®] 7313

Dispersant

PRODUCT DESCRIPTION AND APPLICATION

NALCO 7313 is a water-based, mildly alkaline dispersant. NALCO 7313 controls fouling in recirculating and once-through cooling water systems. It is especially effective in dispersing/emulsifying hydrocarbon oil, thus preventing oily deposits in pipes, heat transfer surfaces and cooling towers. It brings hydrocarbons into the water phase so that they may be readily eliminated from the system by heavy blowdown. Decreasing the hydrocarbon content of cooling water reduces microbic nutrient loading. NALCO 7313 functions effectively over wide pH and temperature ranges. NALCO 7313 is compatible with all Nalco cooling water corrosion inhibitors, scale inhibitors and biocides. It becomes part of a total cooling water program for complete protection of systems. NALCO 7313 does not contain phosphates or heavy metals.

PHYSICAL & CHEMICAL PROPERTIES

The following physical properties are typical values for this product:

Form:	Liquid
Colour:	Clear hazy, Colourless - Light yellow
Odour:	Neutral
Specific Gravity:	0.98 - 1.02
pH:	9.0
Flash Point:	93 °C
Freeze Point:	-7.2 °C
Solubility:	Complete

ACTIVE CONSTITUENTS

Alkaline blend of dispersants and emulsifiers

Active Ingredient	Function
Hexylene Glycol	Alkaline Dispersant
Butyl Glycol	Alkaline Dispersant
Polyoxyethylene alcohol	Alkaline Dispersant

REGULATORY APPROVALS

This product is not classified as dangerous (European Directive 88/379/EEC, 1999/45/EC).

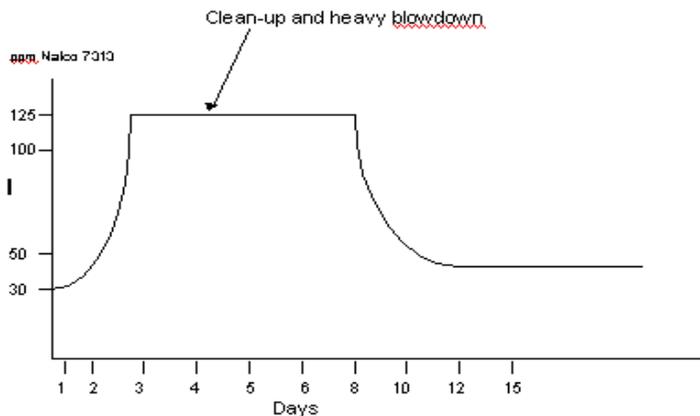
MATERIALS OF COMPATIBILITY

Compatible
Carbon Steel
Stainless Steel
PE
PVC
PP

DOSAGE AND FEEDING

The initial slug dose should be based on the system holding capacity. The maintenance dose should be based on blowdown rate. Contact your Nalco representative for exact dosage calculation. NALCO 7313 should be fed neat continuously or shockwise to a location of good mixing. Dilution with soft water may be made if necessary.

In recirculating cooling water systems, NALCO 7313 should be fed to maintain 20-60 ppm in the recirculating water, depending on the degree of hydrocarbon contamination. For heavily fouled systems, feed NALCO 7313 at 100-150 ppm to assist in cleaning. The dosage can be determined from the diagram below as an example.



Testing and Control

There is no field method for testing this product.

ROI CRITICAL SUCCESS FACTORS

ENVIRONMENTAL AND TOXICITY DATA

Chemical Oxygen Demand (O₂): 4420 mg/l (the COD value applies to a 1% m/m solution)

Acute lethality values:

Oral (rat) : LD50 = 25530 mg/kg

Ecotoxicological effects:

Fish: LC50/ 96H/ *Leuciscus idus* (Gold Orfe) = appr. 62 mg/l

LC50 / 96H/ *Lepomis macrochirus* (Bluegill Sunfish) = 10-100 mg/l

LC50 / 96H/ Oncorhynchus Mykiss (Rainbow Trout) = 10-100 mg/l

Behaviour in municipal sewage treatment plants: Discharge in minor quantity into adapted biological units of sewage treatment plants is not expected to affect the efficiency of the activated sludge process.

SAFETY AND HANDLING

NALCO 7313 is a mildly alkaline product and may cause eye and skin irritation. Wear safety glasses and rubber gloves when handling. Read carefully the label and Material Safety Data Sheet, SECTION 7, for complete handling information before using this product.

STORAGE

NALCO 7313 should be stored in a location where the product temperature can be kept in a range between 0 - 40°C. The recommended in-plant storage is 12 months.

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.

ADDITIONAL INFORMATION

NALCO is a registered trademark of Nalco Company (11-9-05)