

# NALCO® 77352

Biocide



Product Bulletin

## PRODUCT DESCRIPTION AND APPLICATION

NALCO 77352 is a broad spectrum, non-oxidizing biocide used for the control of microorganisms in industrial water systems such as open, recirculating cooling systems, closed loop cooling systems, process water systems, air washers and brewery pasteurisers.

The stabilizer of the active does not contain copper, therefore, NALCO 77352 can be applied in closed loop systems and long HTI recirculating systems without risk of increase in copper content.

*Use biocides safely. Always read the label and product information before use.*

## PHYSICAL & CHEMICAL PROPERTIES

Form	Liquid
Color	Colorless, yellow
Odor	Pungent
Relative Density	1.01 – 1.03 kg/L (8.4 – 8.6 lbs/gal)
Specific Gravity @20°C	1.01 – 1.03
Solubility in Water	Complete
pH (Neat) @20°C	3.0 – 5.0
Viscosity	3 cps
Boiling Point	100°C
Melting Point	-3°C
Flash Point	°C
Vapor Pressure	13.3 Pa (0.0019 psi)
VOC Content (Calculated)	1.72%

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

Biocides are regulated in many countries. NALCO 77352 must be applied according to appropriate national and local regulations.

NALCO 77352 is a registered biocide in Spain, the Netherlands, and Hungary.

The actives of NALCO 77352 have been notified under the European Biocidal Product Directive 98/8/EC (BPD).

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
Hypalon	Brass
Plasite 4005	Carbon steel
Polyethylene	Neoprene
PVC	Nickel
Stainless Steel 316L	Plasite 6000
Teflon	Plasite 7122
Vinyl Tubing	Stainless steel 304

See your local Nalco representative for compatibility information.

## DOSAGE AND FEEDING

As with any biocide, the dosage for a given system is dependent upon the type and level of micro-organisms present in the system. As the level of micro-organisms in a system increases,

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the concentration of biocide required to perform effectively in that system also increases.

**NALCO 77352** may be dosed in the neat form or diluted before use, depending on the dosage rate.

**Overfeed** of **NALCO 77352** will result in high chemical costs and will have a negative impact on the environment.

**Underfeed** of **NALCO 77352** will result in insufficient control of the microbiological population.

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**

Always use personal protective equipment (PPE) when handling neat or dilute product. Use impermeable gloves and chemical splash goggles when attaching feeding equipment, doing maintenance or handling product.

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks,

etc.) readily available. Ensure all containers are labeled. Discard contaminated shoes, belts and other articles made of leather. Skin reaction can be delayed and therefore wetting of the skin and/or clothes does not always give an indication of contamination. Treat all wetting of the skin and/or clothes which occurs during handling as contact with the product and administer first aid immediately.

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

## **STORAGE**

Protect from freezing. Keep container tightly closed in a cool, well-ventilated place.

Storage for more than 6 months is not recommended.

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](http://www.nalco.com).

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