

NALPREP™ IV

Cooling Water Pre-treatment

PRODUCT DESCRIPTION AND APPLICATION

NALPREP IV is a liquid product used to pretreat cooling water systems. It is a blend of several materials, including inorganic phosphate, an organic corrosion inhibitor, a dispersant, and an oil emulsifier.

NALPREP IV is uniquely designed to pretreat both new and older systems that have been chemically or mechanically cleaned. **NALPREP IV** prepares all metal surfaces in the system for long-term corrosion protection. It initially removes any residual oil and grease left behind from the chemical or mechanical cleaning from all metal surfaces to permit uniform layering of the passivating film. It aids in the prevention of flash corrosion when the system is most vulnerable to corrosive attack. The dispersant in **NALPREP IV** is free from alkylphenol ethoxylates (APEO).

PHYSICAL & CHEMICAL PROPERTIES

These properties are typical. Refer to the Safety Data Sheet (SDS) for the most current data.

Form:	Liquid
Density:	1.16-1.20 Kg/L
pH Neat:	10 - 14
Freeze Point:	22°F (- 6°C)
Freeze-Thaw Recovery:	Complete
Viscosity @70°F (20°C):	10 cps
Flash Point:	Not flammable
Odor:	Sweet
Color:	Yellow
Miscibility in Water:	Complete

ACTIVE CONSTITUENTS

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Middle East and Africa
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ecolab.com/nalco-water

Component	Function
Inorganic phosphate	Corrosion inhibitor
Azole	Yellow-metal corrosion inhibitor
Polymer	Scale inhibitor, oil emulsifier
Surfactant	Cleaner, oil emulsifier

REGULATORY APPROVALS

Please refer to the Regulatory Certifications (RCR) document for most recent approval information.

MATERIALS OF COMPATIBILITY

Compatible	Not Compatible*	Not Tested
Brass	Aluminium	Plasite 4005
Buna-N	Carbon (Mild) Steel	
Hypalon® elastomer	Nickel	
Neoprene		
Plasite 6000		
Plasite 7122		
Polypropylene		
Polyurethane		
Stainless Steel 304		
Fluoropolymer		
Vinyl		
Viton® synthetic rubber		
PVC		
CPVC		
EPDM		

*For feed systems and storage in neat form

DOSAGE AND FEEDING

For complete dosage and feeding recommendations, consult your Nalco Water representative.

ENVIRONMENTAL AND TOXICITY DATA

Refer to the product's Safety Data Sheet (SDS) for all available aquatic and mammalian information.

BOD (5 day)	<10 mg/L
Organic Carbon (C)	11,800 mg/kg
Chemical Oxygen Demand (O ₂)	37,000 mg/L

SAFETY AND HANDLING

Please refer to the Safety Data Sheet (SDS) for most recent information.

STORAGE

Shipments of **NALPREP IV** should be protected in cold climates to prevent freezing. Frozen product may be thawed with drum heaters with no adverse effect on the product. Before using, mix well since the product may form two distinct layers upon melting.

REMARKS

If you need assistance or more information on this product, please call your nearest Nalco Water representative.

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

ADDITIONAL INFORMATION

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