FORMULA 318


ACTIVE INGREDIENT:
SODIUM BROMIDE .................................. 40.0%
OTHER INGREDIENTS ................................ 60.0%
TOTAL ............................................. 100.0%

This product weighs 11.9 pounds/gallon at 70°F

KEEP OUT OF THE REACH OF CHILDREN
CAUTION

FIRST AID
IF ON SKIN OR
ON CLOTHING
• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15-20 minutes.
• Call a poison control center or doctor for treatment advice.

IF IN EYES
• Hold eye open and rinse slowly and gently with water for 15-20 minutes.
• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
• Call a poison control center or doctor for treatment advice.

IF SWALLOWED
• Call poison control center or doctor immediately for treatment advice.
• Have person sip a glass of water if able to swallow.
• Do not induce vomiting unless told to do so by the poison control center or doctor.
• Do not give anything by mouth to an unconscious person.

HOT LINE NUMBER
You may contact the Poison Center at 1-800-222-1222 for emergency medical treatment information.

IN CASE OF MEDICAL EMERGENCY, CALL 1-303-623-6716.
SEE OTHER PRECAUTIONS ON SIDE PANEL.

EPA REG. NO. 5185-451-8540
EPA EST. NO. 7855-AR-92

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read entire label and use strictly in accordance with precautionary statements and directions.

RECYCLING, WASHING AND BREWERY PASTEURIZERS:
When used in conjunction with an oxidant, FORMULA 318 effectively controls algal, bacterial, and fungal slime and controls the settlement and growth of mollusks such as the zebra mussel (Dreissena) or the Asiatic clam (Corbicula) in commercial and industrial cooling towers, influent water systems such as flow through filters, cooling ponds, canals, and lagoons; heat exchange water systems; air washers; pasteurizers; retort systems; and industrial water scrubbing systems.

DOSEAGE RATES. Add FORMULA 318 to the system at a 0.125 to 2.0 sodium bromide/oxidant mole ratio. For example:
1) 1.6 to 26.5 pounds of chlorine gas (99.5%) per gallon of sodium bromide solution; or
2) 1.3 to 21.2 pounds sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

Initial Dose: When the system is noticeably fouled, add 0.0003 to 0.024 gallons of FORMULA 318 per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.008 to 0.044 pounds gas chlorine per 1000 gallons of contained water), or sodium hypochlorite solution (0.007 to 0.032 pounds of 12.5% sodium hypochlorite solution per 1000 gallons of contained water).

Subsequent Dose: When microbial control is evident, add 0.0002 to 0.024 gallons of FORMULA 318 per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.004 to 0.040 pounds gas chlorine per 1000 gallons of contained water), or sodium hypochlorite solution (0.003 to 0.032 pounds of 12.5% sodium hypochlorite solution per 1000 gallons of contained water).

SOLD BY: GARRATT · CALLAHAN

REV. CODE: 100212
REV. DATE: 06/2009
MADE IN USA
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FORMULA 318

PULP AND PAPER MILLS
When used in conjunction with an oxidant, FORMULA 318 effectively controls algae, bacterial and fungal slime in pulp and paper mill fresh and sea water influent water systems; cooling water systems; wastewater treatment systems; service water systems; white water systems; non-potable water systems and other process water.

DOSAGE RATES: Add FORMULA 318 to the system at a 0.125 to 2.0 ppm sodium bromide/oxidant mole ratio. For example:
1) 1.6 to 25.5 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution; or,
2) 1.3 to 21.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

Add sufficient amount of mixed FORMULA 318/oxidant solution to achieve a residual bromine level of 0.5 to 5.0 parts per million. For 0.5 ppm add 0.00057 gallons of Formula 318 and 0.0018 gallons of 12.5% bleach or 0.0019 pounds gas chlorine per 1000 gallons of water treated.

Treatment levels of FORMULA 318 and oxidant can be best be measured with test kits for either bromine or chlorine. Tests should be made immediately after drawing water samples from the system. Use test kits according to directions.

1. When a bromine test kit is used, results can be read directly as parts per million bromine.
2. When a chlorine test kit is used, results can be expressed in terms of bromine by multiplying chlorine values by the conversion factor 2.35.

ONCE-THROUGH COOLING WATER AND WASTE WATER TREATMENT SYSTEMS
When used in conjunction with an oxidant, FORMULA 318 effectively controls algae, bacterial and fungal slime and controls the settlement and growth of mussels such as the zebra mussel (Dreissena) or the Asian clam (Corbicula) in once-through fresh and sea water cooling systems, cooling ponds, canals and lagoons; and disinfects secondary and tertiary wastewater treatment systems.

DOSAGE RATES: Add FORMULA 318 to the system at a 0.125 to 2.0 ppm sodium bromide/oxidant mole ratio. For example:
1) 1.6 to 25.5 pounds of chlorine gas (99.9%) per gallon of sodium bromide solution; or,
2) 1.3 to 21.2 gallons sodium hypochlorite (12.5% available chlorine) solution per gallon of sodium bromide solution.

Initial Dose: When the system is noticeably fouled, add 0.0063 to 0.049 gallons of FORMULA 318 per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.02 to 0.08 pounds gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.02 to 0.08 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

Subsequent Dose: When microbial control is evident, add 0.0063 to 0.049 gallons of FORMULA 318 per 1000 gallons of water contained in the system and oxidize with either gas chlorine (0.006 to 0.08 pounds gas chlorine per 1000 gallons of contained volume), or sodium hypochlorite solution (0.006 to 0.08 gallons of 12.5% sodium hypochlorite solution per 1000 gallons of contained volume).

NOTE: Buyer assumes all responsibility for safety and use not in accordance with directions.

HAZARDOUS LABEL NOT REQUIRED

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