

OAKITE® 80

EPA REG. No. 1020-22

EPA Est. No. 1020-NJ-1

PRESERVATIVE FOR METAL CUTTING FLUIDS, COOLANTS AND LUBRICANTS

Active Ingredients:

hexahydro - 1, 3, 5 - tris 78.5%
(2 - hydroxyethyl) - s-triazine

Inert Ingredients 21.5%

TOTAL 100%

DANGER! KEEP OUT OF REACH OF CHILDREN.
CORROSIVE. CAUSES SEVERE EYE AND SKIN DAMAGE. DO NOT
GET IN EYES, ON SKIN OR ON CLOTHING.

Wear goggles or face shield and rubber gloves when handling. Harmful
or fatal if swallowed. Avoid contamination of food.

FIRST AID: In case of contact, immediately flush eyes or skin with
plenty of water for at least 15 minutes. For eyes, call a physician.
Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites,
gelatine solution or if these are not available, drink large quantities of
water. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate
the use of gastric lavage. Measures against circulatory shock as well as
oxygen and measures to support breathing manually or mechanically
may be needed. If persistent, convulsions may be controlled by the
cautious intravenous injection of a short-acting barbituate drug.

Do not reuse empty drum. Return to drum reconditioner or destroy by
perforating or crushing and burying in a safe place.

This product is toxic to fish. Treated effluent should not be discharged
where it will drain into lakes, streams, ponds, or public water. Do not
contaminate water by cleaning of equipment or disposal of wastes.
Apply this product only as specified on this label.

20 GALLONS/75.70 LITERS

OAKITE®

PTD IN U.S.A.

OAKITE PRODUCTS, INC., 50 VALLEY ROAD, BERKELEY HEIGHTS, N. J. 07922

OAKITE PRODUCTS OF CANADA, LTD., BRAMALEA, ONT. L6T 1B7

Offices and Warehouses in Principal Cities: Metuchen, N. J.; City of Industry, Cal.; Houston, Tex.; Romulus, Mich.; Bramalea Ont.

EST. 1909

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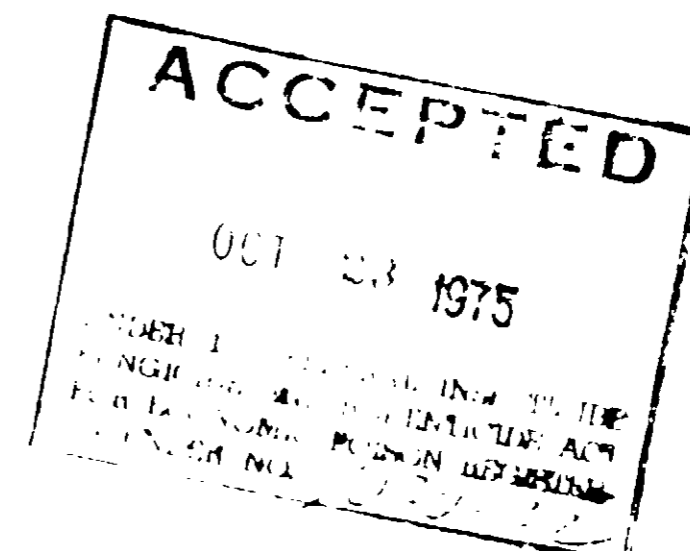
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Mich.; Bramalea Ont.

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WHAT IT IS

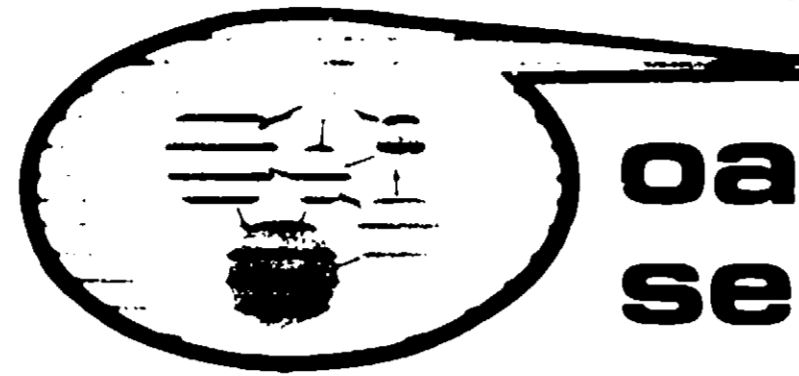
Oakite 80 is a highly active bacteriostat, fungistat, and bactericide. It has been developed as a preservative to effectively reduce the number of contaminating bacteria in soluble cutting fluids, coolants and lubricants. Oakite 80 is primarily designed for use in emulsifiable or soluble cutting oils and synthetic chemical coolant formulations. At the recommended use levels, it will effectively reduce bacterial growth with no deleterious effect on the properties of the cutting or coolant fluid. Oakite 80 at the recommended use level does not contribute to corrosion of metal compounds.

HOW TO USE IT

Oakite 80 is readily incorporated into cutting oil formulations by addition to the concentrate coupled with moderate agitation. It should be added to the concentrate to provide 200–400 ppm of Oakite 80 as is in the final use emulsion. It can also be incorporated into the final use emulsion at a level of 200–400 ppm as supplied. It has been extensively examined in formulations made from all of the commonly used base ingredients and has been found to be completely compatible in all concentrates. Dilutions of emulsifiable concentrates containing Oakite 80 are stable when diluted with from 5–100 parts of water.

DILUTION DIRECTIONS: Add 4.5 oz (0.34 lbs) of Oakite 80 to each 100 gal (830 lbs) of final water use emulsion. To treat concentrate prior to dilution, add 4.5 oz (0.34 lbs) Oakite 80 to each 1 gal (8.0 lbs). This mixture may be diluted to 100 gal maximum with water.

products and processes for cleaning, sanitizing,
surface conditioning, water treatment and pollution control



oakite service bulletin

OAKITE 80

EPA REG. 1020 - 22

OAKITE 80 can be described chemically as
hexahydro - 1, 3, 5 - tris (2-hydroxyethyl)-s-triazine

OAKITE 80 has been developed as a preservative for soluble cutting
fluids, coolants, and lubricants.

APPLICATION

OAKITE 80 is primarily designed for use in emulsifiable or soluble cutting oils, synthetic chemical coolant formulations and lubricants. At the recommended use levels, OAKITE 80 will effectively reduce bacterial growth with no deleterious effect on the properties of the cutting or coolant fluid. OAKITE 80 at the recommended use level does not contribute to corrosion of metal compounds.

USE DIRECTIONS

OAKITE 80 is readily incorporated into cutting oil formulations by addition to the concentrate coupled with moderate agitation. It should be added to the concentrate to provide 200-400 ppm of OAKITE 80 as is in the final use emulsion.

OAKITE 80 can also be incorporated into the final use emulsion at a level of 200-400 ppm as supplied.

OAKITE 80 has been extensively examined in formulations made from all of the commonly used base ingredients and has been found to be completely compatible in all concentrates. Dilutions of emulsifiable concentrates containing OAKITE 80 are stable when diluted with from 5-100 parts of water.

DILUTION DIRECTIONS

Add 4.5 oz. (0.34 lbs.) of OAKITE 80 to each 100 Gallons (830 lbs.) of Final Water Use Emulsion. To treat Concentrate Prior to Dilution, Add 1.5 oz. (0.34 lbs.) OAKITE 80 to Each One Gallon (8.0 lbs.). This mixture may be diluted to 100 gallons maximum with water.

PHYSICAL AND CHEMICAL CHARACTERISTICS

Percent Active	78.5% min.
Color	Pale Yellow
Odor	Mild Amine Odor
pH (10% Soln.)	10.5
Molecular Weight	219
Specific Gravity	1.157 @ 25°C
Weight Per Gallon	9.6 lbs.
Solubility	Miscible with soft and hard water (400 ppm CaCO ₃) in all proportions. Miscible with alcohol and acetone in all proportions. Insoluble in ether, benzene, petroleum, and chloroform.

OAKITE

BACTERIOLOGICAL PROPERTIES

OAKITE 80 is a highly active bacteriostat, fungistat and bactericide. It was examined as a preservative for emulsifiable cutting fluids by a simulated use test as follows: Various cutting fluids including untreated proprietary products, were prepared to contain varying amounts of OAKITE 80. These concentrates were diluted (1:25 aqueous dilution) and inoculated with pooled 24 hour nutrient broth cultures of *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Escherichia coli*, and adjusted to provide between $1-10 \times 10^6$ cells/ml. of test fluid. These are bacteria associated with or isolated from spoiled cutting fluids. Untreated control fluids were similarly diluted and inoculated. All materials were maintained at 35°C. and plated at weekly intervals to determine the numbers of surviving bacteria in the fluids. As an additional stress on OAKITE 80, the fluids were re-inoculated after four weeks of incubation.

The results are graphically presented to describe the amounts of OAKITE 80 required to effectively reduce the number on contaminating bacteria from specific fluid systems within one week.

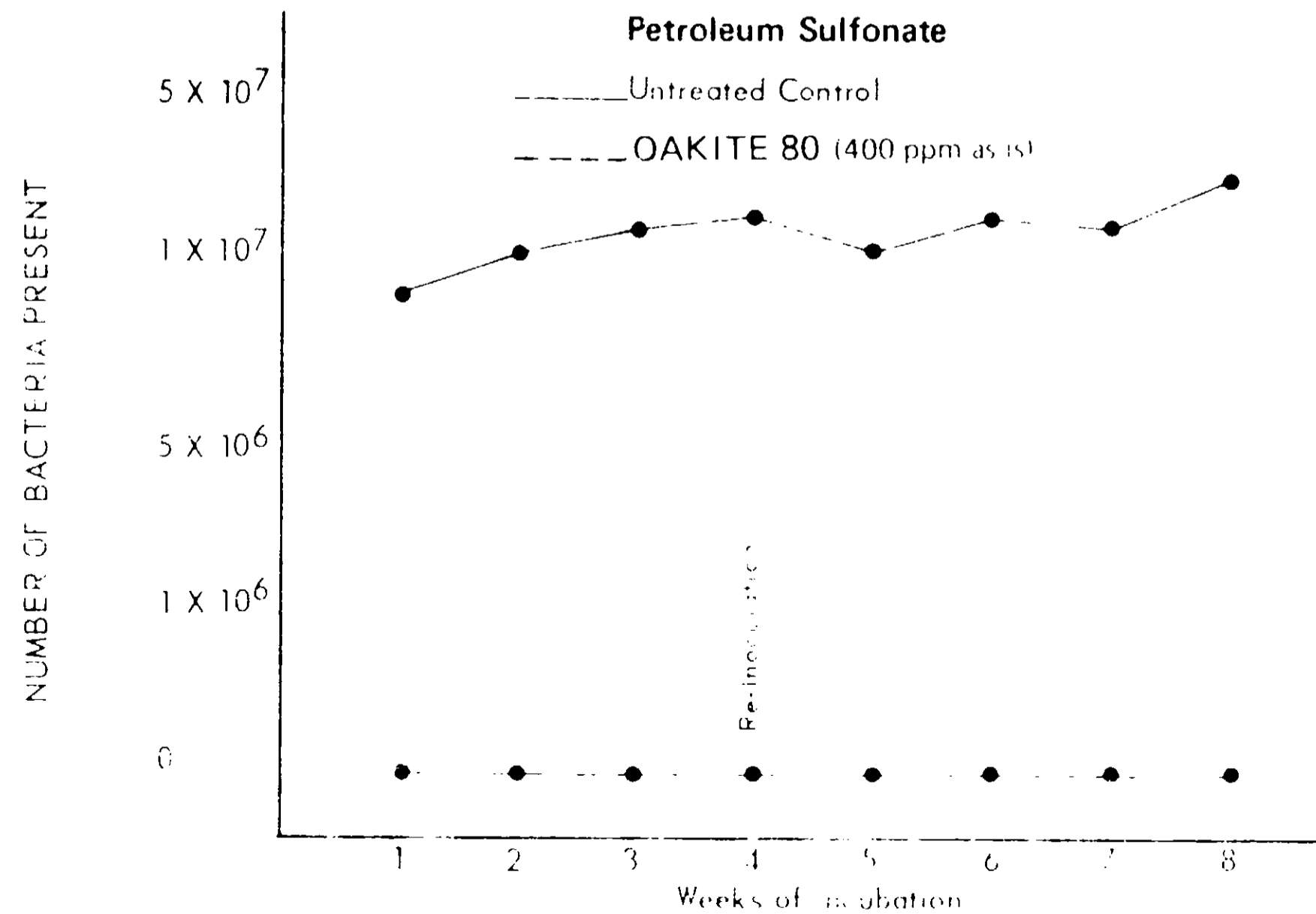
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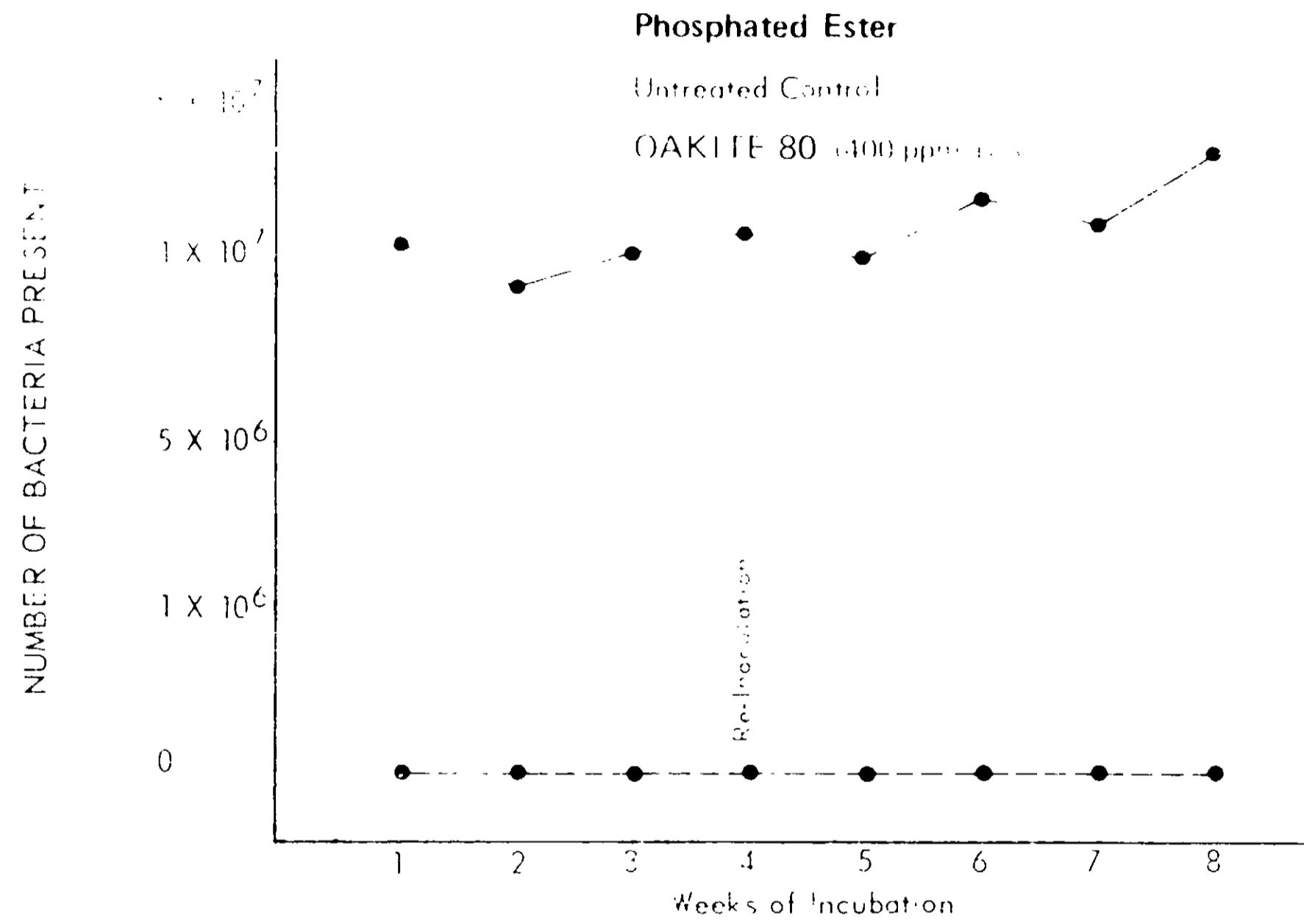
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NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injection of a short-acting barbiturate drug.

Do not reuse empty drum. Return to drum conditioner or destroy by perforating or crushing and burying in a safe place.

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OAKITE PRODUCTS, INC. 50 ALLEY ROAD, BERKELEY HEIGHTS, N.J. 07922
 OAKITE PRODUCTS OF CANADA LTD. 115 EAST DR. BRAMALEA, ONT. L6T 1B7
 Substances in this advertisement were found to be safe. Cable: OAKITE, Berkeley Heights