

WELCHEM MICROBIOCIDE 54 will control algae and bacterial slimes found in recirculating cooling tower waters, oil field water flood and crude oil pipelines and storage facilities.

WELCHEM MICROBIOCIDE 54 helps clean and loosen slime debris from cooling and flooding system surfaces. When used in slug doses, no other microbiocide is required.

WELCHEM MICROBIOCIDE 54 is economical to use because it is concentrated. It should be handled with care.

Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER

FLAMMABLE. CORROSIVE. CAUSES SEVERE EYE AND SKIN DAMAGE. Harmful or fatal if swallowed. Do not get in eyes, on skin or clothing. Wear goggles or face shield, impervious clothing and rubber gloves when handling. Wash thoroughly after handling. Do not contaminate food. Use with adequate ventilation. Keep container closed.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a SPDES permit. For guidance contact your Regional Office of the Environmental Protection Agency.

PHYSICAL HAZARDS

Do not use, pour, spill or store near heat, sparks or open flame.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Open dumping is prohibited.

Do not reuse empty container.

PESTICIDE DISPOSAL

Pesticide that cannot be used or chemically reprocessed and spill residues are hazardous wastes due to ignitability. They should be burned in an approved incinerator.

CONTAINER DISPOSAL

Dispose of in an incinerator or landfill approved for pesticide container. Bury in a safe place or return to drum reconditioner.

GENERAL

Consult federal, state or local disposal authorities for approved alternative procedures.

DOT Proper Shipping Name:
Flammable Liquid, N.O.S.
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WELCHEM



MICROBIOCIDE 54

Active Ingredient

1-Hydroxyethyl-1-benzyl-2-alkyl*

Imidazolinium chloride 50%

Inert Ingredients 50%

100%

*Alkyl as in fatty acids of coconut oil

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes.

Call a physician. Remove and wash contaminated clothing before reuse.

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

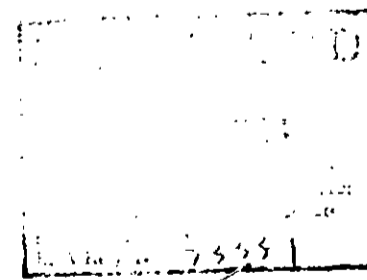
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

**See Side Panel for
Additional Precautionary Statements**

SOLD BY
WELCHEM INC
5450 N.W. CENTRAL DRIVE
HOUSTON TEXAS 77092
(713) 462-4783

EPA STATEMENT No. 7333
EPA Registration No. 7333

NET VOLUME 55 gals (208.2 liter)



DIRECTIONS

It is a violation of the Federal Insecticide, Fungicide, and Rodenticide Act to use any pesticide in a manner inconsistent with its labeling.

For controlling algae and bacterial slimes from buildings and industrial flood and crude oil pipelines and storage facilities, use WELCHEM MICROBIOCIDE 54 in accordance with the following directions:

Recirculating Cool

1. Initially use 7.5 ppm active ingredient. Should the algae or bacteria continue to grow, repeat the application at 15 ppm active ingredient.
2. When the algae or bacteria are controlled, repeat weekly. Should slimes

Recirculating cool growth and bacteria range of these cool.

Dilute the appropriate gallons of water, the weight 7.75 lbs. per

Should lower by the

Oil Field Water Flo

(Do not apply in Ma

1. For the control of oil field water (active) WELCHEM MICROBIOCIDE 54 varies depending

2. For intermittent WELCHEM MICROBIOCIDE 54 (water) for 4-8% to maintain con

Crude Oil Pipeline

1. For the control of bacteria and fungi, gallons of WELCHEM MICROBIOCIDE 54 are applied at the front of the pipe

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WELCHEM, INC
5450 N.W. CENTRAL DRIVE
HOUSTON, TEXAS 77092
(713) 462-4783

EPA Establishment No. 1273-01-01
EPA Registration No. 7333

NET VOLUME 55 gals (208.2 liter)

DIRECTIONS FOR USE GENERAL CLASSIFICATION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For controlling algae, fungi, and a broad spectrum of bacteria and bacterial slime forming organisms that cause inefficient operation of building and industrial recirculating cooling towers, oil field water flood and crude oil pipeline and storage facilities, use WELCHEM MICROBIOCIDES 54 as directed. For best results, slug feed. The frequency of addition needed depends on many factors. To optimize your use of WELCHEM MICROBIOCIDES 54 follow this procedure.

Recirculating Cooling Towers

1. Initially use 7 fluid ounces per 1000 gallons of water to be treated (25 ppm active quantity). Should the above dosage not give satisfactory results, use 13 fluid ounces per 1000 gallons of water. Repeat the initial dose every seven days or increase the frequency if needed.
2. When the above treatment level is successful, use 3 to 4 fluid ounces per 1000 gallons of water to maximize efficiency. Repeat weekly as needed. Should slime develop again, go back to initial dosage.

Recirculating cooling tower waters that are inherently low in algae growth and bacteria count may be adequately controlled by the lower range of these dosages, slug feed every seven days.

Divide the appropriate amount of WELCHEM MICROBIOCIDES 54 in 1 or 2 gallons of water, then add to the sump of the tower. Note this product weighs 7.76 lbs. per gallon (at 20°C).

Should tower be heavily fouled, a pre-cleaning is required.

Oil Field Water Flood or Salt Water Disposal Systems:

(Do not apply in Marine and Estuarine Oil Fields)

1. For the control of slime forming and sulfate reducing bacteria in oil field water or salt water disposal system, add 35-50 ppm (active) WELCHEM MICROBIOCIDES 54 (9.5 - 13 gallons per 3000 barrels of water) continuously. Levels for effective control will vary depending on conditions at the site.
2. For intermittent use, dose at a rate of 35-70 ppm (active) WELCHEM MICROBIOCIDES 54 (9.5 - 18 gallons per 3000 barrels of water) for 4 - 8 hours per day, one to four times a week as needed to maintain control.

Crude Oil Pipeline and Storage Facilities

1. For the control of sulfate reducing bacteria, heterotrophic bacteria and fungus in crude oil pipelines, slug dose with 0.5-2 ppm (active) WELCHEM MICROBIOCIDES 54 per diameter inch per mile of pipeline. Apply the appropriate dosage in slug form in front of the pipeline pig as required by the system.

For the control of sulfate reducing bacteria, heterotrophic bacteria and fungus in crude oil storage facilities, add WELCHEM MICROBIOCIDES 54 (9.5 - 14 gal. per 3000 barrels of water) continuously.

For the control of sulfate reducing bacteria, heterotrophic bacteria and fungus in crude oil storage facilities, add WELCHEM MICROBIOCIDES 54 (9.5 - 14 gal. per 3000 barrels of water) continuously.

For the control of sulfate reducing bacteria, heterotrophic bacteria and fungus in crude oil storage facilities, add WELCHEM MICROBIOCIDES 54 (9.5 - 14 gal. per 3000 barrels of water) continuously.

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