

B-472 will control algae and bacterial slimes found in recirculating cooling tower waters, oil field water flood and crude oil pipelines and storage facilities.

B-472 helps clean and loosen slime debris from cooling and flooding system surfaces. When used in slug doses, no other microbiocide is required.

B-472 is economical to use because it is concentrated. It should be handled with care.

Precautionary Statements

Hazards to Humans and domestic animals

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.

ENVIRONMENTAL HAZARDS

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

PHYSICAL HAZARDS

DO NOT USE, POUR, SPILL OR STORE NEAR HEAT 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 SHOULD BE DISPOSED OF IN A LANDFILL APPROVED FOR PESTICIDES OR BURIED IN A SAFE PLACE AWAY FROM WATER SUPPLIES.

CONTAINER DISPOSAL

DISPOSE OF IN AN INCINERATOR OR LANDFILL APPROVED FOR PESTICIDE CONTAINERS, BURY IN A SAFE PLACE OR RETURN TO DRUM RECONDITIONER.

GENERAL

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

B-472

Water Treatment Microbiocide
for the effective control of a broad
spectrum of microorganisms in building and
industrial recirculating cooling towers, oil field
flood or salt water disposal systems and
crude oil pipelines and storage facilities

Active Ingredient

1-Hydroxyethyl-1-butyl-2-imidazolium chloride 50%

Inert Ingredients

50%

100%

ACCEPTED
EPA COMMENTS
EPA Letter Dated: 5/6/82-7
MAR 22 1984
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide

**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. For eyes, 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 LEFT PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Registration No.

51032

EPA Establishment No.

Net Volume

HONDO CHEMICAL, INC. (805) 589-2290
P.O. Box 9931 * Bakersfield, CA 93389-1931

FOR SALE FOR USE AND STORAGE
BY MAINTENANCE PERSONNEL ONLY

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 B-472 as directed. For best results, slug dose. The frequency of addition of microbiocide needed depends on many factors. To optimize your use of B-472, follow this procedure.

- #### Recirculating Cooling Towers
1. Initially use 7 fluid ounces per 1000 gallons of water to be treated (25 ppm active quaternary). 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 maintain efficiency. Repeat weekly as needed. Should slime develop again, go back to initial dosage.

Recirculating cooling tower waters that are heavily fouled with algae growth and bacteria count may be adequately controlled by the lower range of these dosages; slug dose every seven days.

Dilute the appropriate amount of B-472 in 1 or 2 gallons of water, then add to the sump of the tower. Note this product weighs 7.75 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 flood or salt water disposal systems, add 35-50 ppm (active) B-472 (2 1/2 - 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) B-472 (2 1/2 - 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 corrosion in crude oil pipelines, slug dose with 0.5-3 gallons of B-472 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.
2. For continuous pipeline feed applications, add 9.5-13 gallons of B-472 per 3000 barrels of crude oil. B-472 is added to the pipeline directly behind the pig.
3. For the treatment of crude oil storage facilities, add B-472 at the rate of 9.5-13 gallons per 3000 barrels of crude oil. Add B-472 directly from the drum with the proper type of metering equipment. This product weighs 7.75 lbs/gallon (at 20°C). Since crude oil pipeline and storage facilities differ in the material handled and operation, the recommended dosages may require adjustment based on practical experience.

BEST DOCUMENT AVAILABLE

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (WH-567)
WASHINGTON, D.C. 20460

EPA REGISTRATION NO.

DATE OF ISSUANCE
22 MAR 1984

TERM OF ISSUANCE

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

NAME AND ADDRESS OF REGISTRANT (include ZIP code)

BEST DOCUMENT AVAILABLE

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product, ways refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been used by others.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

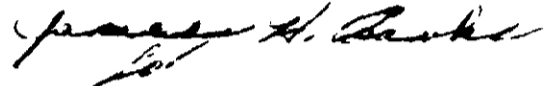
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3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.



John N. Lee
Product Manager (31)
Disinfectants Branch
Registration Division (TS-767C)

Enclosure

RD/DIS:DCR-04824:J.Lee:eq:Raven:557-2226:RD-02:3/12/84:Del.3/27/84