

23 Huntington

FMB 451-28 QUAT

concentrated germicide

FOR FORMULATION OF DISINFECTANTS, SANITIZERS, FUNGICIDES, WATER TREATMENT MICROBICIDES, SWIMMING POOL ALGAECIDES, MILDEWCIDES, OIL FIELD WATER FLOOD AND SALT WATER DISPOSAL PROD-

n-Akyt (C14 50%, C12 40%, C18 10%) density) benzyt semontum chlorides 60 0% ENERY WHATPHEATT

DANGER: KEEP OUT OF REACH OF CHILDREN STATEMENT OF PRACTICAL TREATMENT

In case of contact, enmediately flush eyes with plenty of water for 15 minutes. Call a physician immediately. In case of contact, wash skin thoroughly with soap and water after handling. Call a physician immediately if swelowed, drink promptly a large quantity of mile, ago whitee, getain solution, of if these are not available, drink large quantities of water. Avoir second Call a physician minediately.

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosve: Causes severe eye and stan demage. Do not get in eyes or on skin. Wash contaminated clothing before reute: Wear goggles or face shield and rubber gloves when handling. Harmful or falls if evaluated A ~~I contempation of food.

ENVIRONMENTAL HAZARDS

The precide is tolac to fish Do not apply in marine and/or estaurine of fields. Do not discharge into lakes, streems, ponds or public waters unless in accordance with an NPDES persist. For guidance, contact your Regions' Office of the Francisco America Protection America

PHYSICAL AND CHIMOCAL HAZARDS

Do not use or store near heat or epen flame. FMB 451-28 is a calconic garmoide. Do not mix with ecep or shionic mater-

STORAGE AND DISPOSAL

This product must be kept under locked storage euflicient to make it inaccessible to children or persons unlemiter with its proper use. Do not centerinate water, feed, or feed by storage or disposed. Open durings is prohibled. Do not reuse empty container.

PESTICIDE DISPOSAL
PESTICIDE DISPOSAL
PETICIDE DI

CONTAINER DISPOSAL

FIRES DRUMS WITH LINESS FIRER DRUMS MITH LINERS

1. Includely encirs since the stating and layong sides and territings to looping congression into 1. Includely encirs since the stating and layong sides and trivial only encirs since the stating and trivial only encirs and exceeds to 1. The occurs of several only encirs on the several only encirs of several only encirs.

2. The occurs of t

物度TAL CONTAINERS Ticker in service in 30 values (Then other the ren voting or ren in Africang or Dunc fure and Originals of in a service fand. Tel. or tik united (エル eGuide) 概念(いの) by state and ox ellenturinee.

BISTRUCTIONS FOR FORMULATION

R at a violation of federal lew to use this product in a manner exconsistent with its labeling.

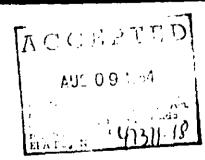
Formulations using this product are responsible for EPA registration for their formulation products. Refer to sechnical build-tin on EMB 451 Quality for instructions for formulation and other information.

EPA Reg No 47371 18 EPA Est No 47371 (NO)

H & S CHEMICALS DIVISION

970 E. Tipton St. Huntington, IN 46750

HS 💞



Muntington

H&S Chemicals Division

FMB 451 QUAT Notes to reticide. For all locations and Redended Act, and describe resticide.

ECCEPTED

as amended, for the pesticide registered under 4737

FMB 451 Quat series are designed for formulation of disinfectants, sanitizers, fungicides, water treatment microbicides, swimming pool algaecides, mildewcides, oil field water flood and salt water disposal products. FMB 451 Quats consist of an effective system of alkyl dimethyl benzyl ammonium chlorides. The multipurpose quats provide you with an efficient chemical for formulation of disinfectant-sanitizers.

Our Quality Control program consists of checking each and every batch made, chemically and microbiologically, to insure the customer that every batch meets our rigid specifications.

| Chemical Composition | FMB 451-5 | FMB 451-8 | FMB 451-15 | FMB 451-28 |
|-------------------------|--------------|--------------|---------------|---------------|
| EPA Registration Number | 47371-11 | 47371-10 | 47371-17 | 47371-18 |
| Addive Ingredients: | 50% | 80% | 50 % | 80% |
| Inert Ingredients: | 50% | 20% | 50% | 20% |

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

The FMB 451 Quats are effective against the representative gram-positive pathogen Staphylococcus aureus, the representative gram-negative pathogen Salmonella choleraesuis, and the representative hospital pathogen Pseudomonas aeruginosa.

FMB 451 Quats are designed for formulation of germicides. For example, disinfectant cleaners in hospitals and nursing homes, as disinfectant cleaners for use in schools and colleges, hotels and motels, office buildings, households, medical and dental offices, veterinary clinics, dairy and poultry farms.

FMB 451 Quats are for disinfecting precleaned hard, non-porous surfaces_in 10 minutes with a recommended use solution of 800 ppm active quat for hospital use areas and with a recommended use solution of 400 ppm active quat for general use areas.

| Organism FMB Quat | | No. of Positives | No. of Carriers Tested | | | |
|-------------------------|---------|---------------------|---------------------------|--|--|--|
| Pseudomonas aeruginosa | 800 ppm | 0 | 180 | | | |
| Staphylococcus aureus | 400 ppm | o | 180 | | | |
| Salmonella choleraesuis | 400 ppm | 0 | 180 | | | |

BEST DOCUMENT AVAILABLE

| HOSPITAL DISINFECTION | | | | | | • | • | • | | | ٠ | • | ٠ | 800 ppm quat |
|-----------------------------------|---|---|--|---|--|---|---|---|---|---|---|---|---|--------------|
| GENERAL OR HOUSEHOLD DISINFECTION | • | ٠ | | • | | • | • | • | • | • | • | • | • | 400 ppm quat |
| SANITIZATION | | • | | | | | • | | | ٠ | | • | | 200 ppm quat |

FMB 451 Quats are effective against Staphylococcus aureus and E. coli as a sanitizer in 750 ppm hard water as tested by the A.O.A.C. Germicidal and Detergent-Sanitizer Method at 200 ppm quat. In addition to use on food processing equipment and utensils, FMB 451 Quats may be used on food-contact surfaces in public eating places.

FMB 451 Quats sanitize precleaned food contact surfaces in one minute with the recommended use solution diluted in water up to 750 ppm water hardness (calculated as CaCO₃) at 200 ppm active quat. FMB 451 Quats are in compliance with 21 CFR \$178.1010 (b) (9) and (c) (6).

FMB 451 Quats are designed for formulation of sanitizer-cleaners for use in restaurants and bars, dietary areas, dairy and poultry farms, federally inspected meat and poultry processing plants, and food processing plants such as:

For use in plants operating under federally inspected Poultry, Meat, Rabbit, Shell Egg Grading, and Egg Products Inspection Programs. FMB 451 Quats are for use as a sanitizer on all surfaces not always requiring a rinse. Before using these compounds, food products and packaging materials must be removed from the room or carefully protected. A potable water rinse is not required following use of these compounds on previously cleaned hard surfaces provided that the surfaces are adequately drained before contact with food so that little or no residue remains which can adulterate or have deleterious effect on edible products. A potable water rinse is required following use of these compounds under conditions other than those stated above.

For use sanitizing dishes, silverware, glasses, and other food utensils at 200 ppm active. FMB 451 Quats may be used on food contact surfaces in public eating places. Do not rinse with potable water.

Food eggs that have been sanitized with FMB 451 Quat shall be subjected to a thorough potable water rinse only if they are broken for use in the manufacture of egg products.

For use to sanitize the udders, flanks, and teats of dairy cows. Do not rinse with potable water. Use a fresh towel for each cow. Avoid contamination of sanitizing solution by dirt and soil. Do not dip towel back into sanitizing solution. When solution becomes visibly dirty, discard and provide fresh solution.

FMB 451 Quats have been tested for ten different nitrosamines including n-nitroso-dicthanolamine (NDEL). It was determined that the FMB 451 Quats contained less than 20 parts per billion (ppb) NDEL and for the other nine nitrosamines FMB 451 Quats.contained less than 200 ppb.

...

......

Formulators using this product are responsible for EPA registration and USDA authorization for their formulated products. For technical service and registration assistance, contact H&S Chemicals Division at 219/356-8100. A complete registration package is available upon request.

Authorization for use of formulated products in USDA inspected meat, poultry, and food processing plants must be obtained by the formulator from USDA.

DANGER: CORROSIVE: Causes severe eye and skin damage. Do not get in eyes or on skin. Wash contaminated clothing before reuse. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food.

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes with plenty of water for 15 minutes. Call a physician immediately. In case of contact, wash skin thoroughly with soap and water after handling. Call a physician immediately. 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.

Consult the label for other instructions and precautionary statements before use of FMB 451 Quats.

TOXICITY TEST RESULTS

gye Irritation: corrosive irritant
primary Skin Irritation: severe, corrosive irritant
Acute Dermal LD50 = 0.8 ml./kg.
Acute Oral LD50 = 0.46 ml./kg.

ACCEPTED

AUG 0 9 1384

United the Research of the Regulated under UT37-18

FMB 451-5 Quat EPA Reg. No. 47371-IPA Reg. No. FMB 451-8 Quat EPA Reg. No. 47371-10 EPA Reg. No. 47371-17 FMB 451-28 Quat EPA Reg. No. 47371-18

H&S Chemicals Division 970 East Tipton Street Huntington, Indiana 46750 219/356-8100

HS-II

BEST DOCUMENT AVAILABLE