

PM 31 Reg. No. 1448-47

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# BUSAN-52

BUSAN is a registered trademark.

**BEST AVAILABLE COPY**

**ACTIVE INGREDIENTS:**  
Potassium ..... 32.0 %  
N-hydroxymethyl-N-methyldithiocarbamate  
**INERT INGREDIENTS:** ..... 68.0 %

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

## CAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Corrosive. Causes eye and skin irritation. Harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly after handling. Avoid contamination of food.

**FIRST AID:** In case of skin contact, wash with plenty of soap and water. Remove contaminated clothing and wash before reuse. If product gets in the eyes, flush immediately with copious amounts of clean, cool water for at least 15 minutes. Get medical attention immediately. If swallowed, call a physician or Poison Control Center. **DO NOT INDUCE VOMITING.** Rinse mouth with copious amounts of water or milk, and then give 1 or 2 glasses of water or milk to drink. Avoid alcohol. Note to physician: Probable mucosal damage may contraindicate gastric lavage.

**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.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.  
**STORAGE:** Do not stack more than five drums high. Drums should be opened in well-ventilated areas. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at your EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

## DIRECTIONS FOR USE

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

Busan 52 can be dispersed directly from the shipping container by means of a chemical metering pump or suitable measuring containers. It should be mixed thoroughly with the material to be protected in a manner that will ensure uniform distribution of the microbicide. If necessary for uniform distribution, it can be diluted with water to any desired lower concentration. Dilute solutions of Busan 52, however, should be used on the same day they are prepared.

Busan 52 is used in pulp and paper mills (1) to control bacterial and fungal slime; (2) to inhibit the growth of bacteria that cause the degradation of papermaking chemicals such as animal glue solutions, clay slurries, starch solutions and slurries, and coating formulations; and (3) to inhibit the growth of fungi that cause the degradation of papermakers alum solutions. Refer to the Product Data bulletin entitled "Busan 52 - For Microorganism Control in Pulp and Paper Mills" for detailed directions on these applications.

Busan 52 is composed of substances that have been allowed for use in the manufacture of paper and paperboard under U.S. Food and Drug Administration Regulation 176.300.

Busan 52 is employed in leather manufacture to control bacterial and fungal degradation of tannery glue solutions. To preserve tannery glue solutions, Busan 52 is added to the glue at rates of 100 - 250 ppm, based on the total weight of the glue. For the preservation of salt-cured hides and skins intended for tanning, Busan 52 is used at treatment rates of 0.5 to 4.0 lb per 1000 lb of white weight stock. For microorganism control in the soaking of hides, Busan 52 is used at rates of 350 to 700 ppm based on the weight of the green hides and soak water.

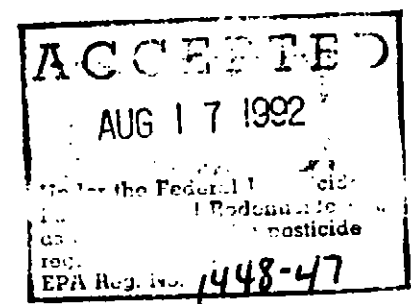
Busan 52 is also used to inhibit the growth of fungi and bacteria in water-based drilling muds, completion fluids, packer fluids, and other water-based drilling fluids containing starch, gums, sugars, or other organic materials. For these purposes Busan 52 is added at concentrations of 0.05 to 0.2% by weight.

**Protective Colloids**  
Enzymes resulting from the growth of certain fungi and bacteria in water-thinned cellulosic protective colloids such as hydroxyethyl cellulose solutions cause a loss in viscosity of these solutions. Busan 52 has demonstrated effectiveness in controlling this microbiological growth and thereby provides viscosity stability for the protective colloid. Concentrations of 0.05 to 0.2 percent of Busan 52 based on the total weight of the solution are suggested for preservation; the exact concentration to be used will depend on the particular system, amount of microorganism contamination, and the degree of protection desired.

**Emulsion Resins and Water-Thinned Paints**  
Enzymes produced by bacteria can also cause loss of viscosity in emulsion resins. Busan 52 at 0.05 to 0.2 percent based on the weight of the emulsion has shown effectiveness as a preservative for both acrylic and polyvinyl acetate emulsion resins. Such emulsion resins are commonly used for the manufacture of emulsion paints, adhesives, waxes, and polishes; and these finished products can also be preserved by the use of Busan 52. Concentrations of 0.05 to 0.2 percent of Busan 52 based on the weight of the finished product are employed in the latter applications.

**Cutting Fluids**  
Busan 52 can be used to prevent degradation of aqueous emulsions of cutting oils or fluids. Concentrations of 0.03 to 0.2 percent of Busan 52 based on the total weight of water and cutting fluid are recommended, and the treatment with Busan 52 should be repeated periodically at no greater than 5-week intervals. In some cases, Busan 52 may be added to concentrated cutting fluids, and the amount of Busan 52 used should be such that concentrations of 0.03 to 0.2 percent are obtained when the cutting oil is mixed with water.

Technical assistance in applying Busan 52 for microorganism control as described above is available upon request when a description of the problem is provided.



**HMIS/NPCA RATING**  
Health 3 Flammability 2 Reactivity 1

Product Weight: 10.5 lbs./gal. 1.26 kg/l  
NET CONTENTS MARKED ON CONTAINER  
**EPA Reg. No. 1448-47**

Manufactured By EPA Est. No. 1448-TN-1  
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