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with water for 15-20 minutes. first five minutes, then continue finsing eyes. atment advice.

diately for treatment advice.

wallow. pison control center or doctor bious person.

for 15-20 minutes. atment.

sulance, then give artificial respiration.

her treatment.

E NUMBER

roperty involving this product, call 1-800-424-9300. a poison control center or doctor or going for treatment.

y preclude the use of gastric lavage.

DIRECTIONS FOR USE

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

USE IN PAINTS

AMICAL 48 is an effective mildewcide and algicide for exterior and interior paints, fire-retardant insulation coating and air duct coatings. Use levels in paint and duct coating will vary depending upon the formulation and expected severity of field conditions. Generally, AMICAL 48 will impart protection when used at levels of between 1.6-5 to AMICAL 48 per 100 galons of paint for severe situations while 1-3 to AMICAL 48 per 100 galons of paint are sufficient for less severe conditions. AMICAL 48 should be added during the last few minutes of the pigment grind for maximum dispersion. For mildew control on fire-retardant coating add AMICAL 48 at 0.0015 to 0.3% at point in production process to ensure sufficient mixing with other dry ingredients.

USE IN PIGMENT DISPERSIONS, INKS, EMULSIONS AND EXTENDER SLURRIES

To inhibit the growth of spoilage fungi during storage of water-based suspensions and dispersions. AMICAL 48 will impart protection when dosed at 0.02-0.15% (w/w). AMICAL 48 at a point in the production process where sufficient mixing will assure good suspension of the material as other ingredients are added.

USE IN ADHESIVES, CAULKS, AND SEALANTS

AMICAL 48 is recommended for use in adhesives and binders, e.g., joint compounds, tile mastics, wallpaper paste, carpet backing, ar filer and foil scrim Kraft laminate; and sealants and caulies where mildew growth on the applied or stored product may be a problem. For control of mildew growth add 0.01-0.30% AMICAL 48 at a point in the production process where sufficient mixing will assure good suspension of the material as other ingredients are added.

USE IN LEATHER TANNING

AMICAL 48 is used in protecting chrome or vegetable tanned leather from mold and mildew during in-tannery wet processing and for protecting wet-blue during long storage and long transportation times. For normal protection of chrome-tanned cattle hides (based on white weight of hides) use 0.01-0.02%, for sheep hides (based on drained pickle weight) 0.05-0.08%, and for goat and small skins use levels should be calculated on the dry basis of the skin weight, assuming limed weight to be 20% dry basis and pickled weight to be 33% dry basis. When long hold or export protection is required, use 0.02-0.04% for cattle, 0.08-0.15% for sheep, and on goat and small skins follow recommendations for normal protection. Use level recommendations, add the dry AMICAL 48 through the drum door, preferably by sprinkling across the width of the drum. This should be done just prior to chrome addition, or together with the formate, if formate is added dry prior to chrome. In the case of retarycolor/fatiliquor, add AMICAL 48 prior to the prime fatiliquor fearl

USE IN WOOD PRESERVATION -(FOR FORMULATING USE ONLY)

AMICAL 48 can be used for control of mildew, sapstain, and wood rotting organisms. Incorporate AMICAL 48 into appropriate vehicles to protect wood from stain and decay. AMICAL 48 can be utilized in either aqueous or solvent-based systems at concentrations ranging from 0.3-1.0% (w/w). Solvent-based systems containing mineral

either aqueous or solvent-based systems at concentrations ranging from 0.3-1.0% (w/w). Solvent-based systems containing mineral spirits require a suitable co-solvent for the incorporation of AMICAL into the system. Formulators are responsible for obtaining EPA registration of formulated products. USE IN METALWORKING FLUIDS

AMFCAL 48 is recommended for use in metalworking fluids and tubricants to prevent fungal growth. The level of AMICAL 48 to be incorporated into metalworking fluid concentrate will vary depending upon the dilution factor recommended by the manufacturer. For efficient fungistatic activity, a concentration 100 to 3000 ppm of AMICAL 48 in the diluted fluid is suggested. AMICAL 48 should be dissolved in an appropriate solvent prior to addition to the metal working fluid.

USE IN RUBBER AND PLASTIC PRODUCTS AMICAL 48 is recommended for PVC, polyurethane, rubber, thermoplastic rubber and other polymeric based products, coating, adhesives, foarns, and sealarits requiring protection against microbial deterioration. For control of microbial deterioration use 0.1-0.8% AMICAL 48 based upon total weight of solids in the formulation. AMICAL 48 can be incorporated into the formulation at any convenient stage of the manufacturing process. USE IN TEXTILES AND NON-WOVENS (NON-CLOTHING) To prevent mickey growth on products such as canvas, carpet, cordage, drapes, filters, and shower curtains. Use levels depend upon the expected severity of exposure or end-use conditions. In general 0.5 to 5.0 to 1 AMICAL 48 per 1000 th of dry fabric (500-5,000 ppm) is needed. AMICAL 48 is best added together with the water-repellent emulsion of dry to ensure durability.

USE IN PAPER PRODUCTION

This product aids in the control of objectionable fungi in pub, paper mills and the additive system and for the preservation of pulp, pigment sturmes, akum, emulsions, adhesives, defoarners, polymers and paper products. This product is used to inhibit fungal growth which causes discoloration, odor and degradation in paper and paperboard. This product is not cleared for use in the manufacture of paper and paperboard products that come in contact with food.

Additions can be made on a continuous or intermittent basis depending upon the severity of the contamination. Bady fouled systems must be cleaned before treatment is begun. Apply at a point in the system where the product will be uniformly mixed. intermittent or Stug Method - Initial Dose: When the system is noticeably fouled, add this product at the rate of 0.0008 to 0.8 b per ton of pub, or paper produced. Addition to the additive system should be made directly at the rate of 0.0008 to 0.8 b per ton of pub, or paper produced. Addition to the additive system should be made directly at the rate of 0.0008 to 0.3 b 0.48 to 400 ppm) per 1000 galons. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add this produced. There the system as needed to maintain control. Addition to this product to the additive system may be reduced to 0.004 - 1.68 Ib (0.48 to 200 Pem) per 1000 galons.

Commutous resolution instantial costs. When the system is noticeably touled, add this product at the rate of 0.0008 to 0.4 b per ton of pulp of paper produced. Additions of this product to the additive system should be made directly at the rate of 0.004 to 2.52 to (0.48 to 300 pm) per 1000 galons. Continuous feed of this product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.4 b per ton of pulp and paper product at the rate of 0.0008 to 0.008 to 0.4 b per ton 0.008 to 0.0

MOLD INHIBITION IN PAPER AND PAPERBOARD

This product is used to inhibit fungal growth which causes discoloration, odor and degradation in paper and paperboard. This product may be applied to the while water or stock at a rate of 0.02 to 3.4 b per ton of dry fiber produced. For inhibition of wet lap or sheet pulp, this product should be applied to the dewatered pulp surfaces via applicator rolls or shower at 0.02 to 3.4 b per ton of dry fiber produced. Application can also be made at the size press or water box. Application is made at the rate of 80 to 8.000 ppm of this product in the solution applied to the paper sheet. **PRESERVATION IN PAPER PLANT STORAGE** This product should be added directly to the material to be presserved prior to manufacturing into the finished product, i.e., pulp, atum, broke, polymers, defoamers, emutsions, adhesives, paper mil coating, pigment and skimies. The dosage rate will depend upon the material to be preserved and the storage time. The usual additions should be 0.2 ppm for storage of microbial resistant materials up to 250 ppm for tess resistant materials. Under extreme conditions of spollage the dosage rate should be increased to 4 to 400 ppm. The above recommendations are based on a maximum storage time of two weeks. USE WTH NATROCELLULOSE

AMICAL 48 is an effective antifungal agent for use in nitrocellulose wet with water for purposes of storage and shipment. Add 0.05 to 0.3% by weight of AMICAL 48 based upon the wet weight of nitrocellulose. AMICAL 48 should be added to the nitrocellulose only by the manufacturer as the last ingredient.

ACCEPTED AUG - 4 2003 Under the Federal Insecticide, Funglicide, and Rodernicide Act as amended, for the pesticide, registered under EPA Reg. No. 464 - 670