ACT Z-200 ANTIMICROBIAL POWDER FORMULATION

ACT Z-200 ANTIMICROBIAL POWDER FORMULATION A MICROBIOCIDE FOR USE IN THE MANUFACTURE AND PRESERVATION OF COMMODITY PRODUCTS

ACTIVE INGREDIENTS:

MATERIAL SILVER

0.24%

ZINC OXIDE

95.94%

INERT INGREDIENTS 3.82%

TOTAL:

100.00%

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF INHALED:

MOVE PERSON TO FRESH AIR.
IF PERSON IS NOT BREATHING, CALL 911 OR AN
AMBULANCE, THEN GIVE ARTIFICIAL
RESPIRATION, PREFERABLY BY MOUTH-TO-MOUTH,
IF POSSIBLE.
CALL A POISON CONTROL CENTER OR DOCTOR FOR
FURTHER TREATMENT ADVICE

IF ON SKIN OR CLOTHING:

TAKE OFF CONTAMINATED CLOTHING.
RINSE SKIN IMMEDIATELY WITH PLENTY OF
WATER FOR 15-20 MINUTES.
CALL A POISON CONTROL CENTER OR DOCTOR FOR
TREATMENT ADVICE.

IF IN EYES:

HOLD EYE OPEN AND RINSE SLOWLY AND GENTLY WITH WATER FOR 15-20 MINUTES.
REMOVE CONTACT LENSES, IF PRESENT, AFTER THE FIRST 5 MINUTES, THEN CONTINUE RINSING EYE.

CALL A POISON CONTROL CENTER OR DOCTOR FOR TREATMENT ADVICE.

IF SWALLOWED:

CALL POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE. HAVE PERSON SIP A GLASS OF WATER IF ABLE TO SWALLOW.*

DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO BY THE POISON CONTROL CENTER OR DOCTOR.

DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

 THE STATEMENTS FOR PRODUCTS CONTAINING PETROLEUM DISTILLATES MAY BE DIFFERENT.

AIROUAL CORPORATION CANTON, MA 02021

CAUTION

CAUTION: HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH THE SKIN. AVOID CONTACT WITH EYES OR SKIN. AVOID CONTAMINATION OF COOKING UTENSILS AND FOOD PREPARATION SURFACES. AVOID BREATHING DUST. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.

ENVIRONMENTAL HAZARDS: THIS PRODUCT IS TOXIC TO FISH. KEEP OUT OF ANY NATURAL BODY OF WATER DO NOT CONTAMINATE WATER BY CLEANING OF EQUIPMENT OR DISPOSAL OF WASTES. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT INTO LAKES, STREAMS, PONDS, ESTUARIES, OCEANS, OR OTHER WATER UNLESS IN ACCORDANCE WITH THE REQUIREMENTS OF NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND THE PERMITTING **AUTHORITY HAS BEEN NOTIFIED IN WRITING PRIOR** TO DISCHARGE. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT TO SEWER SYSTEMS WITHOUT PREVIOUSLY NOTIFYING THE LOCAL SEWAGE TREATMENT PLANT AUTHORITY. FOR GUIDANCE, CONTACT YOUR STATE WATER BOARD OR REGIONAL OFFICE OF THE EPA.

PRODUCT INFORMATION: 1-866-544-2477 MEDICAL EMERGENCIES: 1-866-544-2477

EPA REGISTRATION NO. 79705-2
EPA ESTABLISHMENT NO. 079705-MA-001

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

STORAGE: DO NOT STORE IN AREAS ACCESSIBLE TO CHILDREN. DO NOT STORE IN PLACES WHERE FOOD OR FEED MAY COME IN CONTACT WITH THE PRODUCT. KEEP AWAY FROM DIRECT SUNLIGHT.

DISPOSAL: UNUSED MATERIAL SHOULD BE DISPOSED OF ON SITE OR AN APPROVED WASTE DISPOSAL FACILITY.

CONTAINER DISPOSAL: COMPLETELY EMPTY LINER BY SHAKING AND TAPPING SIDES AND BOTTOM TO LOOSEN CLINGING PARTICLES. EMPTY RESIDUE INTO APPLICATION EQUIPMENT. THEN DISPOSE OF LINER IN A SANITARY LANDFILL OR BY INCINERATION, IF ALLOWED BY STATE AND LOCAL AUTHORITIES. IF DRUM IS CONTAMINATED AND CANNOT BE REUSED, DISPOSE OF IN THE SAME MANNER.

ACCEPTED

JAN 0 3 2005

Under the Federal Insecticide, Fungicide, and RodenScide Act as amended, for the pesticide, registered under EPA Reg. No. 7 9 70-5 – Z

DIRECTIONS FOR USE:

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT INCONSISTENT WITH ITS LABELING.

CLAIMS: ACT Z-200 IS AN ANTIMICROBIAL POWDER FOR COMMERCIAL USE. IT IS DESIGNED TO BE INCORPORATED INTO THE MATERIALS LISTED BELOW AS PART OF THE MANUFACTURING PROCESS TO IMPART ANTIMICROBIAL ACTIVITY TO THE MANUFACTURED MATERIALS. ACT T-538 ANTIMICROBIAL POWDER SUPPRESSES THE GROWTH OF BACTERIA, MOLD, AND FUNGI, INCLUDING THOSE RESPONSIBLE FOR UNPLEASANT ODORS, AND DISCOLORATION OF THE FINISHED PRODUCT.

PRODUCTS CONTAINING ACT 2-200 MAY NOT MAKE CLAIMS OF ANTIMICROBIAL ACTIVITY OTHER THAN PROTECTION OF THE ARTICLE ITSELF AGAINST GROWTH OF BACTERIA, MOLD, AND FUNGING THE TREATED ARTICLE. IF GROWTH OF BACTERIA, MOLD AND FUNGING THE TREATED ARTICLE WOULD LEAD TO UNPLEASANT ODORS AND DISCOLORATION OF THE TREATED ARTICLE, THEN SUCH A CLAIM MAY BE MADE

THIS PRODUCT MAY NOT BE USED FOR ANY APPLICATIONS INVOLVING FOOD CONTACT FOOD PACKAGING OR HUMAN DRINKING WATER

FINISHED MATERIALS: ACT Z-200 MAY BE INCORPORATED INTO THE FOLLOWING MATERIALS AT THE SPECIFIED MAXIMUM INHIBITORY CON

APPLICATION

PLASTICS (SEE SEPARATE DESCRIPTION OF RESINS AND APPLICATIONS)

FIBERS (SEE SEPARATE DESCRIPTION OF RESINS AND APPLICATIONS) 15.0%

COATINGS (SEE SEPARATE DESCRIPTION OF RESINS AND APPLICATIONS)

ADHESIVES AND SEALANTS (SEE SEPARATE DESCRIPTION OF RESINS AND APPLICATIONS)

ACCEPTED. ---- 9 3 **2095** JAN & S BEE 15.0% Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the

MIC

10.0%

10.0%

pesticide, registered under EPA Reg. No. 79705-1

TYPES OF MATERIAL

(1) PLASTICS INCLUDING FILMS, SHEETS, SLABS, AND MOLDED PLASTIC PARTS; RESINS: INCLUDING POLYESTER (PET, PBT, AND PEN), POLYAMIDE, (NYLON), POLYIMIDE, POLYPROPYLENE (PP), POLYETHYLENE (PE), POLYBUTYLENE, POLYMETHYLENE (PMP), POLYSILOXANE, POLYVINYL ALCOHOL (PVOH), POLYVINYLACETATE (PVA), ETHYLENEVINYLACETATE (EVA), POLYETHYLENE COPOLYMER, POLYVINYL CHLORIDE (PVC), EPOXY, PHENOLIC, POLYCARBONATE, CELLULOSICS, CELLULOSICS, CELLULOSICS, CELLULOSICS, CELLULOSICS, POLYSTYLENE, POLYBETHANE, ACRYLIC, POLYMETHYL METHACRYLATE, ACRYLICNITRILE-BUTYARIDIENE-STYRENE (PVA), POLYBETHAR POLYB BUTADIENE RUBBER, ACRYLONITRILE BUTADIENE RUBBER, CR), POLYACETAL (POLYOXYMETHYLENE), AND BLENDS OF COPOLYMERS THEREOF

APPLICATIONS: THIS PRODUCT MAY NOT BE USED FOR ANY APPLICATIONS INVOLVING FOOD CONTACT, FOOD PACKAGING, OR HUMAN DRINKING WATER. APPLICATIONS INCLUDING AUTOMOBILE PARTS, SHOWER CURTAINS, MATS, PROTECTIVE COVERS, TAPE, PACKAGING, GASKETS, WASTE CONTAINERS, GENERAL PURPOSE CONTAINERS, BRUSH HANDLES, SPONGES, MOPS, VACUUM CLEANER BAGS, INSULATORS, PLASTIC FILM. INDOOR AND OUTDOOR FURNITURE, TUBING, INSULATION FOR WIRE AND CABLE, PLUMBING SUPPLIES AND FIXTURES, SIDING FOR HOUSING, LINERS, NON-WOVEN FABRICS, KITCHEN AND BATHROOM HARDWARE, APPLICATIONS BOUPPMENT, COUNTERTOPS NOT INCLUDING KITCHEN COUNTERTOPS ON ANY OTHER FOOD-CONTACT COUNTERTOPS'S SINKS, FLOORING, FLOOR COVERING, TILES, DISHES, CONVEYER BELTS, FOOTWEAR INCLUDING BOOTS, TOOLS, COMMUNICATION EQUIPMENT, PERSONAL GROOMING EQUIPMENT, PERSONAL CARDS, SPORTS AND EXERCISE EQUIPMENT, AND WHEELS

*NOTE: ALLOWABLE COUNTERTOP USE INCLUDES, FOR EXAMPLE, COUNTERTOPS IN BATHROOMS, DRESSING AREAS OR GARAGE WORK-BENCH AREAS IN PRIVATE RESIDENCES, AND CUSTOMER-SERVICE COUNTERTOPS IN NON-FOOD COMMERCIAL ESTABLISHMENTS, BUT DOES NOT INCLUDE COUNTERTOPS IN FAST-FOOD RESTAURANTS OR COUNTERTOPS IN FOOD PROCESSING AREAS OF FOOD MANUFACTURING FACILITIES

(2) FIBERS-RESINS: INCLUDING ACETATE, POLYESTER ("DACRON", PET, AND PTT), POLYOLEFINS, POLYETHYLENE, POLYPROPYLENE, POLYAMIDES INCLUDING "NYLON", ACRYLICS, VISCOSE, POLYURETHANE, AND "RAYON", POLYVINYL ALCOHOL, POLYVINYL CHLORIDE, POLYVINYLIDENE CHLORIDE, POLYSACCHARIDE, AND COPOLYMERS AND BLENDS THEREOF.

APPLICATIONS. THIS PRODUCT MAY NOT BE USED FOR ANY APPLICATIONS INVOLVING FOOD CONTACT, FOOD PACKAGING, OR HUMAN DRINKING WATER

APPLICATIONS INCLUDING: HOME FURNISHINGS: MATTRESS COVER PADS, PILLOW COVERS, SHEETS, BLANKETS, FIBERFILL FOR QUILTS AND PILLOWS, CURTAINS AND DRAPERIES, CARPET AND CARPET UNDERLAY, UPHOLSTERY, TABLE CLOTHS, NAPKINS, WIPING CLOTHS, TOWELS, TOWELS, BAGS, WALLCOVERING FABRICS, CUSHION PADS, SLEEPING BAGS AND BRUSH BRISTLES.

TRANSPORTATION: AUTOMOTIVE AND TRUCK UPHOLSTERY, CARPETING, REAR DECKS, TRUNK LINERS, CONVERTIBLE TOPS AND INTERIOR LINERS

APPAREL: UMBRELLAS, OUTERWEAR, TRIM FOR OUTERWEAR, INTERLINERS FOR JACKETS, COATS, UNIFORMS, SHOES, GLOVES AND HELMETS, CAPS, APRONS, SPORTSWEAR, SLEEPWEAR, STOCKINGS, SOCKS, HOSIERY, AND UNDERGARMENTS.

INDUSTRIAL AND HOUSEHOLD ITEMS: BRUSH BRISTLES, ARTIFICIAL LEATHER FILTERS, BOOK COVERS, MODS CLOTH FOR SAILS, ROPES, TENTS AND OTHER OUTDOOR EQUIPMENT, TARPS

(3) COATINGS-RESINS: INCLUDING ALKYDS, AMINO RESINS (MELAMINE FORMALDEHYDE AND UREA FORMALDEHYDE) POLYESTER (UNSATURATED POLYESTER, PET, PBT, AND PEN), POLYAMIDE (NYLON), POLYMIDE, POLYPROPYLENE (PP), POLYETHYLENE (PE), POLYBUTYLENE, POLYMETHYLPENTENE (PMP), POLYSILOXANE, POLYVINYL ALCOHOL, (PVOH), POLYVINYLACETATE (PVA), ETHYLENE-VINYLACETATE (EVA), POLYETHYLENE COPOLYMER POLYVINYL CHLORIDE (PVC, INCLUDING PLASTISOL), POLYVINYLIDENE CHLORIDE (PBDC), EPOXY, PHENOLIC, POLYARENDATE, CELLULOSICS, EDUTADIENE-STYRENE COPOLYMER (ASA), ACETALS, POLYKETONES, POLYPHENYLENE ETHER, POLYPHENYLENE SULFIDE, POLYPHENYLENE OXIDE, POLYSULFONES, LIQUID CRYSTAL POLYMERS AND FLUOROPOLYMERS, THERMO PLASTIC ELASTOMERS, RUBBERS (INCLUDING STYRENE BUTADIENE RUBBER, ACRYLONITRILE BUTADIENE RUBBER, CR), POLYACETAL (POLYOXYMETHYLENE,) AND BLENDS AND COPOLYMERS THEREOF

TYPES OF COATINGS: WATER-BORNE, SOLVENT-BORNE, 100% SOLIDS, AND LIQUID AND POWDER COATINGS

APPLICATIONS: THIS PRODUCT MAY NOT BE USED FOR ANY APPLICATIONS INVOLVING FOOD CONTACT, FOOD PACKAGING, OR HUMAN DRINKING WATER. APPLICATIONS INCLUDING WALLS, WALLBOARD, FLOORS, CONCRETE, SIDING, ROOFING SHINGLES, NOUSTRIAL EQUIPMENT NATURAL AND SYNTHETIC FIBERS AND FABRICS, FURNITURE, AUTOMOTIVE AND VEHICULAR PARTS, PACKAGING PAPER PRODUCTS (WALL COVERINGS, TOWELS, BOOK COVERS), BARRIER FABRICS FOR CEMENT TILE AND FIR VITREOUS CHINA USE IN PLUMBING FUTURES SUCH AS TOILETS, SINKS AND COUNTERTOPS* NOT INCLUDING KITCHEN COUNTERTOPS OR ANY OTHER FOOD-CONTACT COUNTERTOPS, COMMUNICATION EQUIPMENT, PERSONAL GROOMING EQUIPMENT. PERSONAL CARDS, SPORT AND EXERCISE EQUIPMENT, AND WHEELS

*NOTE. ALLOWABLE COUNTERTOP USE INCLUDES, FOR EXAMPLE, COUNTERTOPS IN BATHROOMS, DRESSING AREAS OR GARAGE WORK-BENCH AREAS IN PRIVATE RESIDENCES, AND CUSTOMER-SERVICE COUNTERTOPS IN NON-FOOD COMMERCIAL ESTABLISHMENTS, BUT DOES NOT INCLUDE COUNTERTOPS IN FAST-FOOD RESTAURANTS OR COUNTERTOPS IN FOOD PROCESSING AREAS OF FOOD MANUFACTURING FACILITIES

ADHESIVES AND SEALANTS-RESINS: INCLUDING ALXYDS, AMINO RESINS (MELAMINE FORMALDEHYDE AND UREA FORMALDEHYDE) POLYESTER (UNSATURATED POLYESTER, PET, PBT, AND PEN), POLYAMIDE (NYLON), POLYIMIDE, POLYPROPYLENE (PP), POLYETHYLENE (PE), POLYBUTYLENE POLYMETHYLENE (PMP), POLYSILOXANE, POLYVINYL ALCOHOL, (PVOH), POLYVINYLACETATE (PVA), ETHYLENE-VINYLACETATE (EVA), POLYETHYLENE COPOLYMER, POLYVINYL, CHLORIDE (PVC, INCLUDING PLASTISOL). POLYVINYLIDENE CHLORIDE (PBDC), EPOXY, PHENOLIC, POLYCARBONATE, CELLULOSICS, CELLULOSICS, CELLULOSICS, CELTULOSICS, CELT

METHODS OF APPLICATION: HOT-MELT, AQUEOUS, SOLVENT BORNE, 100% SOLIDS, RADIATION CURE.

APPLICATIONS: THIS PRODUCT MAY NOT BE USED FOR ANY APPLICATIONS INVOLVING FOOD CONTACT, FOOD PACKAGING, OR HUMAN DRINKING WATER. APPLICATIONS INCLUDING ADHESIVES USED IN THE MANUFACTURE OF WOOD AND PLASTIC COMPOSITES, ADHESIVES FOR CERAMIC TILE, WOOD, PAPER, CARDBOARD, RUBBER AND PLASTIC, GLAZING FOR WINDOWS, GROUT, AND SEALANTS FOR PIPES, ADHESIVES, SEALANTS AND INSULATING MATERIALS FOR APPLIANCES, BATHROOMS, SHOWERS, KITCHENS, AND CONSTRUCTION.

MISCELLANEOUS APPLICATIONS-MATERIALS: CLAY, CHINA, CERAMICS, CONCRETE, SAND, AND GROUT

APPLICATIONS. THIS PRODUCT MAY NOT BE USED FOR ANY APPLICATION INVOLVING FOOD CONTACT, FOOD PACKAGING, OR HUMAN DRINKING WATER. APPLICATIONS INCLUDING TOILETS, SINKS, TILE, FLOORING, STUCCO, PLASTER, CAT LITTER, DRAINAGE AND SEWERAGE PIPE

AIRQUAL CORPORATION

CANTON, MA 02021