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(Front Panel Label)  
APACIDER - AW

APACIDER-AW is an antimicrobial powder for commercial and industrial use designed to be incorporated into various materials during varying stages of the manufacturing process to preserve the integrity of the manufactured materials. A preservative for use in the manufacture of plastic films, paint (interior), paper coating, adhesive, synthetic fibers and pigments. For more details of the various materials refer to the supplemental labeling for uses of Apacider - AW.

ACTIVE INGREDIENT:  
Silver as elemental ..... 2.03%  
INERT INGREDIENTS: ..... 97.97%  
Calcium Zinc Phosphate and Silica

KEEP OUT OF REACH OF CHILDREN  
CAUTION

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: May be harmful if swallowed. Avoid contact with skin, eyes, or clothing. Avoid contamination of cooking utensils and food preparation surfaces. Causes eye irritation. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT: If swallowed, drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Call a physician or poison control center. Do not induce vomiting or give anything by mouth to an unconscious person. If on skin, remove contaminated clothing and wash affected area with soap and water. If irritation persists, contact a physician. If in eyes, flush eyes for at least 15 minutes with water. If irritation persists contact a physician.

ENVIRONMENTAL HAZARDS: This pesticide may be toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL, Pesticide Disposal: Pesticide wastes are toxic. 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 the nearest EPA Regional Office for guidance.

Container Disposal (Paper/Bags): Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and Local Authorities, by burning. If burned, stay out of smoke.

Container Disposal (Plastic): Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

MANUFACTURED BY:  
SANGI GROUP AMERICA, INC.  
22554 VENTURA BLVD, # 127  
WOODLAND HILLS, CALIFORNIA 91364

EPA REG. NO. 68317-2  
EST. NO. 68317-JP-001  
Net Content: 20 kg

ACCEPTED  
EPA COMPLIANCE  
IN EPA Letter Report  
APR 24 1996  
68317-2

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(Back Panel)

APACIDER - AW

DIRECTIONS FOR USE

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

BLENDING AND FORMULATING INSTRUCTIONS FOR THE LISTED MATERIALS

APACIDER - AW is a silver, zinc calcium phosphate with silica, antimicrobial powder designed to be incorporated into various materials at various stages of their manufacturing process to preserve the integrity of the manufactured materials. The powder can be incorporated into the materials as an integral part of the finished products throughout their entire thickness, or as a film over the surfaces of the manufactured materials, depending on the particular method of manufacture of the finished materials and needs of the manufacturer.

APACIDER - AW may be incorporated into the following materials at the specified Maximum Inhibitory Concentrations (MIC) on a dry weight basis of finished products.

APPLICATION	MIC
Plastic Film: Non-food use only and no water pipes, Polyethylene, polypropylene, polyvinyl chloride, polyacetate, and polyester	20.00%
Paint (Water base and solvent base) For Interior surfaces & furniture	5.00%
Paper Coatings (non food packaging paper, no food contact) Cellulose, synthetic, specialty, reinforced, not for paper production use.	3.00%
Adhesives (non food contact): Natural and Synthetic Adhesives	3.00%
Plastic Fibers: Polyethylene, Polyester, Nylon, Acrylic and polypropylene	20.00%
Plastic Sheets: Melamine, epoxy resin, phenol resin, polycarbonate, polyurethane, acrylic resin, methylmethacrylate, acrylonitrile butadiene styrene copolymer and polyvinyl acetate, polyvinyl chloride and polyethylene terephthalate	20.00%
Textile Finishing and Manufacturing	3.00%
Non-Woven: Polypropylene, Polyethylene, Polyester, Polyvinyl chloride and Nylon.	20.00%
Flexible Tubing: Silicon rubber, polyvinyl chloride, polyethylene	20.00%

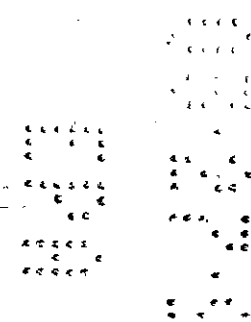
For details in blending APACIDER - AW with these materials refer to supplemental labeling.

ACCEPTED  
with COMMENTS  
in EPA Letter Report

APR 24 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under FIFRA Act No.

68317-2



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SUPPLEMENTAL LABELING

APACIDER - AW

**Claims:** Apacider - AW is to be incorporated into the following materials at suitable stages of the manufacturing process to impart antimicrobial activity to the treated materials, and thus make them suppress the growth of bacteria and mold responsible for unpleasant odors and discoloration of the treated materials.

**Fibers:** Polyester, polypropylene, nylon, polyethylene, acrylic, rayon

**applications:**

**Home Furnishings:** mattress cover pads, sheets, blankets, quilt and pillow fiber fill, curtain and drapery, carpet and carpet underlay, upholstery, wiping cloths, towels, bags, wallcover fabrics, cushion pads, sound proofing, laminate in automobiles, ball point pens and telephones.

**apparel:** interlinings, industrial & military uniforms, coats and aprons, sportswear, sleepwear, stockings, socks, helmets, caps, gloves, awnings, tents shades and construction fabrics.

**Industrial:** brush bristles, shoe linings, artificial leather, book covers, sail cloth and ropes.

**Plastic Films and Molded Plastics:**

**Types:** polyester, polyamide, polypropylene, polyethylene, polysiloxane, polyethylene copolymer, polyvinyl alcohol, epoxy resin, phenol resin, polycarbonate, cellulose acetate, polystyrene, polyurethane, acrylic resin, methyl methacrylate, acrylonitrile butadiene styrene copolymer polyvinyl chloride.

**Applications:** gloves, shower curtains, cable wraps, protective covers, non-food contact foam containers, brush handles, sponges, insulators, gaskets, non-food tubing, non-food contact containers and film, furniture, toys, bathroom utensils, kitchen & bath hardware, garden furniture & utensils, slippers, boots, roof liners and pool liners.

**Paper Coatings (not for food packaging or for food contact):**

**Types:** cellulosic, synthetic, specialty, reinforced

**Applications:** wallpaper, non-food wrap, wiping towels, book covers, corrugated paper filters, storage boxes, bags, folders, filing covers

**Paint:** water based, oil based paints; for interior surfaces (not for exterior paint) textile dyeing and finishing operations, paint preservers, viscosity agents, plasticizers.

**Adhesives (not for adhesives for paper or containers that will come in contact with food):**

**Applications:** adhesive for plywood manufacture, adhesive for cement tile and sealants, wallpaper glues, fiber binders, laminate adhesives, footwear adhesives.

**NOTICE:** Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use, but neither this warranty of MERCHANTABILITY nor FITNESS FOR A PARTICULAR PURPOSE expressed or implied extends to the use of his product contrary to labeling instructions or under abnormal conditions, or under conditions not reasonably foreseeable to seller and buyer assumes the risk of any such use.

RECEIVED  
EPA COMPLIANCE  
DIVISION  
APR 24 1996  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under FIFRA 1974, 29 U.S.C. 1601-1607, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

APR 24 1996

Sangi Group America, Inc.  
22554 Ventura Blvd., #127  
Woodland Hills, CA 91364

Subject: Apacider-AW  
EPA Registration Number 68317-2  
Amendment Dated March 26, 1996

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you comply with the items listed below. The subject of this amendment is for the addition of the following use pattern: incorporation into the following articles to impart a bacteriostatic, and fungistatic resistance to sheets, blankets, industrial and military uniforms, sportswear, sleepwear, stockings, socks, caps, bristles, shoe linings, & boots.

1. Submit/cite all data required for registration/-reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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.

Sincerely yours,

Marion J. Johnson  
Product Manager 31

CONCURRENCES

Antimicrobial Programs Branch  
Registration Division (7505C)

SYMBOL							
SURNAME							
DATE							