

MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF PRODUCT

PRODUCT NAME: URINAL DEODODORANT BLOCKS (PB103, PB104) 5/04
SUPPLIER: BANNER CHEMICAL CORP., 111 HILL ST., ORANGE, N.J. 07050-3901,
TELEPHONE NUMBER: 973/676-2900

SECTION 2 HAZARDOUS INGREDIENTS

*1,4-DICHLOROBENZENE CAS NO. 106-46-7 99% TLV 75ppm, 8-hour TWA

*THIS TOXIC CHEMICAL IS SUBJECT TO REPORTING REQUIREMENTS OF SEC. 313-SARA TITLE III-40CFR, PART 372.

SECTION 3 PHYSICAL DATA

BOILING POINT: 174°C.

VAPOR PRESSURE: 1.027 MM Hg @ 25°C.

VAPOR DENSITY: 5.07

EVAPORATION RATE: NA

SOLUBILITY IN WATER: 75ppm @ 30°C.

APPEARANCE AND ODOR: WHITE SOLID WITH PENETRATING AROMATIC FRAGRANCE.

% VOLATILE BY VOLUME: 100

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 148°F.

FLAMMABLE LIMITS: UNKNOWN

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL.

SPECIAL FIRE FIGHTING PROCEDURES: MUST WEAR N-IOSH/MSHA APPROVED, SELF-CONTAINED PRESSURE DEMAND BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARD: BURNS TO FORM TOXIC, CORROSIVE HYDROGEN CHLORIDE AND POSSIBLE TRACES OF PHOSGENE.

SECTION 5 HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: OSHA: 75ppm, 8-hour TWA. INHALATION: NO EFFECT LEVEL 158ppm. DERMAL: >6000MG/KG. SKIN/EYE IRRITATION: 1.0/8.0, 13.7/110 (DRAIZE). INGESTION: (RATS) 3827 MG/KG. FISH (LETHAL CONC.): TLM96: 10-<1 ppm.

EFFECTS OF OVEREXPOSURE: ACUTE: INHALATION: INHALATION OF PARA-DICHLOROBENZENE AT CONCENTRATIONS IN EXCESS OF THE PERMISSIBLE EXPOSURE LIMITS CAN CAUSE DEPRESSION OF THE CENTRAL NERVOUS SYSTEM. EFFECTS OF SUCH OVEREXPOSURE INCLUDE HEADACHE, DIZZINESS, EYE, NOSE AND THROAT IRRITATION, NAUSEA, FEELING OF DRUNKENNESS, UNCONSCIOUSNESS AND EVEN DEATH - IN CONFINED OR POORLY VENTILATION, MAY OCCUR IN SOME INDIVIDUALS. EYE/SKIN: CONTACT OF SOLID PARTICLES OF PARA-DICHLOROBENZENE WITH THE EYES CAN CAUSE SEVERE IRRITATION AND PAIN. SOLID PARA-DICHLOROBENZENE HAS A SLIGHTLY IRRITATING EFFECT ON THE SKIN, WHEN HELD IN CLOSE CONTACT FOR EXCESSIVE PERIODS OF TIME. INGESTION: ALTHOUGH INGESTION IS NOT A LIKELY ROUTE OF EXPOSURE IN INDUSTRIAL APPLICATIONS, ACCIDENTAL INGESTION OF LARGE AMOUNTS OF PARA-DICHLOROBENZENE CAN CAUSE ILLNESS SIMILAR TO THOSE LISTED ABOVE FOR INHALATION, OR DEATH. CHRONIC: VARIOUS LONG-TERM CHRONIC INHALATION STUDIES INVOLVING SEVERAL SPECIES OF EXPERIMENTAL ANIMALS HAVE REVEALED LIVER AND, TO A LESSER EXTENT, KIDNEY DAMAGE IN THE EXPOSED ANIMALS. SIMILAR LIVER AND KIDNEY EFFECTS WERE NOTED IN ORAL STUDIES IN RATS AND RABBITS. IN MARCH OF 1986, NTP RELEASED DATA FROM A TWO-YEAR GAVAGE STUDY WHICH INDICATED CLEAR EVIDENCE FOR CARCINOGENICITY IN MALE AND FEMALE MICE (LIVER ADENOMAS AND CARCINOMAS) AND IN MALE RATS (KIDNEY ADENOCARCINOMAS). A PREVIOUS INHALATION STUDY WHICH HAD SHOWN NO EVIDENCE FOR INCREASED INCIDENCE OF TUMORS. OTHER STUDIES HAVE SHOWN PARA-DICHLOROBENZENE TO BE WITHOUT TERATOGENIC (BIRTH DEFECTS), MUTAGENIC OR CARCINOGENIC EFFECTS. PARA-DICHLOROBENZENE IS NOT LISTED BY IARC OR OSHA AS A CARCINOGEN. BASED ON THE LATEST NTP STUDY, PARA-DICHLOROBENZENE WOULD BE AN ANIMAL CARCINOGEN. THE RELEVANCE OF THE FINDINGS TO HUMAN HEALTH ARE NOT KNOWN AT PRESENT.

EMERGENCY AND FIRST AID PROCEDURES: INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. EYE/SKIN CONTACT: FOR EYE CONTACT, FLUSH THOROUGHLY WITH PLENTY OF WATER, AND CALL A PHYSICIAN. FOR SKIN CONTACT: FLUSH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION OR DISCOMFORT OCCURS, CONSULT A PHYSICIAN. INGESTION: IF CONSCIOUS, DRINK LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. TAKE IMMEDIATELY TO A HOSPITAL OR PHYSICIAN. IF UNCONSCIOUS, OR IN CONVULSIONS, TAKE IMMEDIATELY TO A HOSPITAL. DO NOT ATTEMPT TO INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 6 REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: OPEN FLAMES, HOT GLOWING SURFACES OR ELECTRIC ARCS.

INCOMPATIBILITY: NONE

HAZARDOUS DECOMPOSITION PRODUCTS: HYDROGEN CHLORIDE AND POSSIBLE TRACES OF PHOSGENE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 7 SPILL OR LEAK PROCEDURES

SPILLAGE: REMOVE UNPROTECTED PERSONNEL FROM AREA OF SPILL, PROVIDE MAXIMUM VENTILATION

WASTE DISPOSAL METHOD: PPG RECOMMENDS MATERIAL TO BE RECOVERED AND/OR REPROCESSED.

OTHERWISE, IT MUST BE DISPOSED OF BY BURNING IN AN APPROVED INCINERATOR OR DISPOSAL IN AN APPROVED HAZARDOUS WASTE MANAGEMENT FACILITY. 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.

SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: USE NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE OR CANISTER RESPIRATOR FOR ROUTINE WORK PURPOSES WHEN AIR CONCENTRATIONS EXCEED THE PERMISSIBLE EXPOSURE LIMITS.

VENTILATION: LOCAL EXHAUST VENTILATION SUFFICIENT TO MAINTAIN WORKPLACE CONCENTRATION BELOW PERMISSIBLE EXPOSURE LIMITS.

GLOVES: VITON. FOR LIMITED SERVICE ONLY: NITRILE, POLYVINYL ALCOHOL (DEGRADES IN WATER).

EYE PROTECTION: CHEMICAL SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT: IMPERVIOUS BOOTS, APRONS, OR CHEMICAL SUITS SHOULD BE USED WHEN NECESSARY TO PREVENT SKIN CONTACT. PERSONAL PROTECTIVE CLOTHING AND USE OF EQUIPMENT MUST BE IN ACCORDANCE WITH 29 CFR 1910.132 AND 29 CFR 1910.133.

SECTION 9 SPECIAL PRECAUTIONS

STORE IN CLOSED, PROPERLY LABELED CONTAINERS IN A COOL PLACE. KEEP OUT OF REACH OF CHILDREN. DO NOT USE IN CONFINED OR POORLY VENTILATED AREAS. DO NOT CONTAMINATE WATER, FOOD OR FEEDSTOCK. DO NOT EAT, DRINK OR SMOKE IN WORK AREA.

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