

MATERIAL SAFETY DATA SHEET

N/A=NOT APPLICABLE

EFFECTIVE DATE 4/05

SECTION 1 - PRODUCT IDENTIFICATION**Product Name: FRAGRANT DEODORANT CRYSTALS (DO801)****Supplier's Name: Banner Chemical Corp.****Supplier's Address: 111 Hill St.****Orange, N.J. 07050****Chemical Family: CLEANING COMPOUND****Proper Shipping Name: CLEANING COMPOUND****DOT Shipping Hazard: N/A****DOT Labels Required: N/A****EMERGENCY TELEPHONE NUMBER 973/676-2900****HMIS RATING (0-4): HEALTH: 1 FIRE: 1 REACTIVITY: 0****SECTION 2 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS NO.	% (optional)	TLV(ACGIH)
*1,4 Dichlorobenzene	106-46-7	99	75 ppm, 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 (mmHg @ 20°C): 1.027 MM
 VAPOR DENSITY (air=1): 5.07
 SPECIFIC GRAVITY: N/A

SECTION 4 - FIRE and EXPLOSION DATA

FLASH POINT: 148°F.
 FLAMMABLE LIMITS: Unknown
 EXTINGUISHING MEDIA: Carbon dioxide; dry chemical
 SPECIAL FIREFIGHTING PROCEDURES: Must wear N-IOSH/MSHA approved, self-contained pressure demand breathing apparatus.

PHYSICAL DESCRIPTION: White solid with penetrating aromatic fragrance.

pH: N/A

UNUSUAL FIRE & EXPLOSION HAZARD: Burns to form toxic, corrosive hydrogen chloride & possible traces of phosgene.

SOLUBILITY IN WATER: 75 ppm @ 30°C.

EVAPORATION RATE: N/A

% VOLATILE BY VOLUME: 71

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 ventilated areas, may occur in some individuals. EYE/SKIN: Contact of solid particles with the eyes can cause severe irritation and pain. Solid material 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 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 that indicated clear evidence for carcinogenicity in male and female mice (liver adenomas and carcinomas) and in male rats (kidney adenocarcinomas). A previous inhalation study 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. 1,4-dichlorobenzene is not listed by IARC or OSHA as a carcinogen. Based on the latest NTP study, 1,4-dichlorobenzene would be an animal carcinogen. The relevance of the findings to human health is not known at present.

EMERGENCY & FIRST AID PROCEDURES: INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. EYE: Flush thoroughly with water holding eyelids open. SKIN: Wash with soap and water. If irritation or discomfort occurs consult a physician.

INGESTION: If conscious, drink large quantities of water. Do not induce vomiting. Transport immediately to a hospital or physician. Never give anything by mouth to an unconscious person. In all cases consult a physician.

SECTION 6 - REACTIVITY DATA

STABILITY: Stable under normal conditions

INCOMPATIBILITY: None known

CONDITIONS TO AVOID: Open flames, hot glowing surfaces and electric arcs.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride and possible traces of phosgene

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 7 - SPILL or LEAK PROCEDURES

SPILLAGE: Contain spill; remove unprotected personnel; provide maximum ventilation; pick up.

WASTE DISPOSAL METHOD: In a manner consistent with federal, state and local regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use N-IOSH/MSHA approved organic vapor cartridge or canister respirator for routine work purposes when air concentrations exceed the permissible exposure limits.

VENTILATION: Local exhaust sufficient to maintain workplace concentration below permissible exposure limits.

GLOVES: Viton. For limited service only use 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

Do not get in eyes or on skin. Wash thoroughly after handling. Use with adequate ventilation. Store away from other chemicals and out of the reach of children. Store in a closed container away from fire and extreme heat. Keep from freezing. Use protective equipment. Do not contaminate water, food or feedstock. Do not eat, drink or smoke in work area.

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