

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

4HK80, 4HK81, 4HK82, 4HK83

MATERIAL SAFETY DATA SHEET
MAY BE USED TO COMPLY WITH
OSHA'S HAZARD COMMUNICATION STANDARD
29 CFR 2910.1200. STANDARD MUST BE
CONSULTED FOR SPECIFIC REQUIREMENTS.

U. S. DEPARTMENT OF LABOR
OCCUPATIONAL SAFETY AND HEALTH
(NON-MANDATORY FORM)
FORM APPROVED
OMB NO. 1218-0072

IDENTITY (AS USED ON LABEL AND LIST): BIG D PARA BLOCK #900, 950, 960, 980

NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO
INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION I

MANUFACTURERS NAME: BIG D INDUSTRIES, INC.
ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE):
5620 S. W. 29TH STREET (73179)
P. O. BOX 82219
OKLAHOMA CITY, OK 73148

EMERGENCY TELEPHONE NUMBER: (800) 535-5053 (800) 654-4752
TELEPHONE NUMBER FOR INFORMATION: (800) 654-4752 (405) 682-2541
DATE PREPARED: 04-24-95
SIGNATURE OF PREPARER (OPTIONAL):

SECTION II - HMIS RATING

HEALTH 2 FLAMMABILITY 2 REACTIVITY 0

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	% (OPTIONAL)
PARA DICHLOROBENZENE* [1,4-DICHLOROBENZENE], PDCB CAS #106-46-7	75 PPM 8 HR TWA	10 PPM	110 PPM (ACGIH-STEL)	99.65

UN #1952

*THIS PRODUCT CONTAINS PARA DICHLOROBENZENE WHICH IS DEFINED AS A TOXIC
CHEMICAL AND SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III
OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART
372.

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SECTION IV - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 345.2F/174C SPECIFIC GRAVITY (H2O=1) @ 55F/4C:
VAPOR PRESSURE (MM HG.) @ 25C: 0.92 1.245-1.250
MELTING POINT: 127.4F/53C VAPOR DENSITY (AIR=1): 5.1
EVAPORATION RATE: 1/A SOLUBILITY IN WATER @ 25C, % BY WT.:
0.008

APPEARANCE AND ODOR: WHITE BLOCK WITH PENETRATING "MOTHBALL" ODOR

SECTION V - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 150F (TCC)
FLAMMABLE LIMITS: % BY VOL.: LEL: 2.5 UEL: N/E
EXTINGUISHING MEDIA: WATER SPRAY, FOAM, CO2, DRY CHEMICAL, OR ANY CLASS B
EXTINGUISHING AGENT.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR FULL PROTECTIVE CLOTHING AND NIOSH/
MSHA APPROVED SELF CONTAINED BREATHING APPARATUS WHERE EXPOSURE TO VAPORS IS
POSSIBLE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: HIGHLY TOXIC GASES (HYDROGEN CHLORIDE,
CHLORINE, AND TRACES OF PHOSGENE) CAN BE EVOLVED IN FIRES OF THIS PRODUCT.

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE: STABLE: X
CONDITIONS TO AVOID: KEEP AWAY FROM OPEN FLAME AND SPARKS.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS, OXIDIZING AGENTS, HOT
ALUMINUM OR ALUMINUM ALLOYS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE,
SMOKE, SOOT, HYDROGEN CHLORIDE AND PHOSGENE.

HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X
CONDITIONS TO AVOID: NONE

SECTION VII - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:
INHALATION? YES SKIN? YES INGESTION? YES (UNLIKELY)

HEALTH HAZARDS (ACUTE AND CHRONIC): INHALATION AND INGESTION OF PSCE AT
CONCENTRATIONS WELL ABOVE PER CAN CAUSE DEPRESSION OF THE NERVOUS SYSTEM.
VAPOR MAY CAUSE IRRITATION OF SKIN AND EYES AND HAS BEEN KNOWN TO CAUSE LIVER
DAMAGE IN RATS AND RABBITS.

CARCINOGENICITY: NTP? IARC MONOGRAPHS? OSHA REGULATED?
PDCB HAS BEEN LISTED BY THE NTP AS A SUBSTANCE THAT IS "REASONABLY ANTICIPATED
TO BE" CARCINOGENIC. IARC HAS BEEN CLASSIFIED AS "POSSIBLY CARCINOGENIC TO
HUMANS". IT IS ALSO LISTED CARCINOGEN UNDER CALIFORNIA PROP. 65.

AND SYMPTOMS OF EXPOSURE: HEADACHE; DIZZINESS; EYES, NOSE AND THROAT
IRRITATION; NAUSEA; FEELING OF DRUNKENNESS; CARDIAC SENSITIZATION IF
CONCENTRATION ABOVE TLV.

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MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: ASTHMA OR OTHER
RESPIRATORY DISORDERS; BLOOD, LIVER AND KIDNEY DISORDERS.

EMERGENCY AND FIRST AID PROCEDURES:
EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES; GET MEDICAL
ATTENTION.

SKIN: FLUSH AFFECTED AREA WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES; IF
IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

INHALATION: REMOVE PERSON TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF
BREATHING HAS STOPPED; GET MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING; GET MEDICAL ATTENTION.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SCOOP UP AND PUT
IN CLOSED CONTAINER.

WASTE DISPOSAL METHOD: MATERIAL SHOULD BE BURNED IN AN APPROVED INCINERATOR
OR DISPOSED OF IN AN APPROVED DUMP IN ACCORDANCE WITH LOCAL, STATE AND
FEDERAL REGULATIONS.

OTHER PRECAUTIONS: STORE AWAY FROM HEAT AND OPEN FLAME. AVOID EXCESSIVE
INHALATION AND CONTACT WITH SKIN AND EYES.

SECTION IX - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE):

VENTILATION:
LOCAL EXHAUST: WELL VENTILATED SPECIAL: N/A
MECHANICAL (GENERAL): N/A OTHER: N/A

PROTECTIVE GLOVES: NONE
EYE PROTECTION: DO NOT RUB EYES WITH CONTAMINATED HANDS.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: EYE WASH/SHOWER FACILITY NEARBY.
WORK/HYGIENIC PRACTICES: GOOD HOUSEKEEPING PRACTICES. AVOID SKIN/EYE
CONTACT. WASH THOROUGHLY WITH SOAP AND WATER AFTER COMING IN CONTACT WITH
PRODUCT.

N/A=NOT APPLICABLE N/D=NOT DETERMINED N/E=NOT ESTABLISHED
OSHA 174, SEPT. 1985

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AUG 11 1998