

# MATERIAL SAFETY DATA SHEET

UNITED MINERAL AND CHEMICAL CORPORATION  
100 VALLEY BROOK AVENUE  
LYNDHURST, NJ 07071  
TEL: 201-507-3300 FAX: 201-507-1506

FOR EMERGENCY CALL:  
**CHEMTREC**  
1-800-424-9300

## SECTION A - PRODUCT INFORMATION

TRADE NAME : PANAX BLUE BS-7000 or BS-7050  
CAS NUMBER : 147-14-8  
SYNONYMS : PHTHALO BLUE B; CI PIGMENT BLUE 15:3, C.I. #74160:3  
CHEMICAL FAMILY : PHTHALOCYANINE: COPPER COMPLEX PIGMENT  
FORMULA :  $C_{32}H_{16}N_8Cu$

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## SECTION B - HAZARDOUS COMPONENTS

COMPONENT	CAS NO.	%	PEL/TLV
COPPER (AS AN INTEGRAL PART OF DYE MOLECULE)	7440-50-8	>1%	1 mg/m <sup>3</sup> OSHA TWA, DUSTS & MISTS AS Cu 0.1 mg/m <sup>3</sup> ACGIH TWA, INHALABLE AS Cu

## SECTION C - PHYSICAL PROPERTIES

BOILING POINT (°) : N/A  
MELTING POINT (°) : N/A  
VAPOR PRESSURE (mm Hg) : N/A  
VAPOR DENSITY (AIR=1) : N/A  
SOLUBILITY IN WATER : 2% max. WATER SOLUBLE MATTER  
ODOR THRESHOLD : N/A  
APPEARANCE & ODOR : DARK BLUE FINE POWDER; ODORLESS

SPECIFIC GRAVITY : 1.6  
FREEZING POINT (°) : N/A  
PERCENT VOLATILE (BY WT.) : 2% max. as MOISTURE  
EVAPORATION RATE : N/A  
pH (10% IN WATER) : 7-10

## SECTION D - FIRE & EXPLOSION DATA

FLASH POINT (°) : NOT AVAILABLE  
FLAMMABLE LIMITS : LEL : (UNKNOWN) UEL : (UNKNOWN) AUTO IGNITION TEMP (° F) : (UNKNOWN)  
EXTINGUISHING MEDIA : WATER : (X) FOAM : (X) CO<sub>2</sub> : (X) DRY CHEMICAL : (X)  
SPECIAL FIRE FIGHTING PROCEDURES : USE PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS. PREVENT RUN OFF TO SEWERS AND BODIES OF WATER FROM FIRE FIGHTING INVOLVING THIS PRODUCT, AS PRODUCT CONTAINS CLEAN WATER ACT PRIORITY POLLUTANTS.  
UNUSUAL FIRE & EXPLOSION HAZARDS : AS WITH ANY ORGANIC COMPOUND, DUST CLOUD FORMATION FROM PIGMENT POWDER MAY CREATE A DUST CLOUD EXPLOSION HAZARD.

## SECTION E - REACTIVITY DATA

STABILITY : STABLE  
INCOMPATIBILITY : STRONG OXIDIZING AGENTS  
HAZARDOUS DECOMPOSITION PRODUCTS : WHEN HEATED TO DECOMPOSITION MAY EMIT TOXIC FUMES OF NITROUS OXIDES AND OXIDES OF CARBON. RESIDUE WILL CONTAIN COPPER.  
HAZARDOUS POLYMERIZATION : WILL NOT OCCUR  
CONDITIONS TO AVOID : DUSTY CONDITIONS, IGNITION SOURCES

## SECTION F - PERSONAL PROTECTIVE EQUIPMENT INFO

RESPIRATORY EQUIPMENT : USE NIOSH APPROVED RESPIRATOR OR DUST MASK  
PROTECTIVE GLOVES : CHEMICAL RESISTANT GLOVES RECOMMENDED  
EYE PROTECTION : SAFETY GLASSES ARE RECOMMENDED  
VENTILATION : LOCAL EXHAUST VENTILATION TO MEET PERMISSIBLE EXPOSURE LIMITS (SEE SECTION B)  
OTHER PROTECTIVE EQUIPMENT : COVERALLS OR PROTECTIVE CLOTHING

N/A = NOT APPLICABLE