

MATERIAL SAFETY DATA SHEET

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SECTION A - PRODUCT INFORMATION

TRADE NAME : PANAX YELLOW 3R, 3RH, HR, 3RL or 3RC REVISION DATE : DECEMBER 10, 2004
CAS NUMBER : PRIMARY COMPONENT 5567-15-7
SYNONYMS : C.I. PIGMENT YELLOW 83, C.I. NO. 21108, DIARYLIDE YELLOW HR
CHEMICAL FAMILY : DISAZO ORGANIC PIGMENT
FORMULA : $C_{22}H_{17}Cl_4N_2O_6 + BaSO_4$

SECTION B - HAZARDOUS COMPONENTS

COMPONENT	CAS NO.	%	PEL/TLV
BARIUM SULFATE	7727-43-7	0-5	15mg/m ³ OSHA, TOTAL DUST 5mg/m ³ OSHA FINAL, RESPIRABLE FRACTION 10mg/m ³ ACGIH, TOTAL DUST
AS NUISANCE DUST: PARTICULATES NOT OTHERWISE REGULATED			15 mg/m ³ OSHA TWA TOTAL DUST 5 mg/m ³ OSHA TWA RESPIRABLE FRACTION

SECTION C - PHYSICAL PROPERTIES

BOILING POINT (°) :	N/A	SPECIFIC GRAVITY :	1.4
MELTING POINT (°) :	NOT DETERMINED	FREEZING POINT (°) :	N/A
VAPOR PRESSURE (mm Hg) :	N/A	PERCENT VOLATILE (BY WT.) :	2% MAX. (MOISTURE)
VAPOR DENSITY (AIR=1) :	N/A	EVAPORATION RATE :	N/A
SOLUBILITY IN WATER :	NEGLIGIBLE	pH (10% IN WATER) :	4-8
ODOR THRESHOLD :	N/A		
APPEARANCE & ODOR :	REDDISH YELLOW COLORED POWDER; ODORLESS		

SECTION D - FIRE & EXPLOSION DATA

FLASH POINT (°) : N/A
FLAMMABLE LIMITS : LEL : (UNKNOWN) UEL : (UNKNOWN) AUTO IGNITION TEMP (° F) : (UNKNOWN)
EXTINGUISHING MEDIA : WATER : (X) FOAM : (X) CO₂ : () DRY CHEMICAL : ()

SPECIAL FIRE FIGHTING PROCEDURES : USE PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE & EXPLOSION HAZARDS : AS WITH ANY ORGANIC COMPOUND, DUST CLOUD FORMATION FROM PIGMENT POWDER MAY CREATE A DUST CLOUD EXPLOSION HAZARD. MAINTAIN GOOD HOUSEKEEPING FOR CONTROL OF DUST.

SECTION E - REACTIVITY DATA

STABILITY : STABLE
INCOMPATIBILITY : STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS : WHEN HEATED TO DECOMPOSITION MAY PRODUCE OXIDES OF CARBON AND NITROGEN, AND CHLORINE COMPOUNDS. WHEN PROCESSED IN CERTAIN POLYMER SYSTEMS ABOVE 200°C (392°F), MAY THERMALLY DECOMPOSE TO FORM 3,3'-DICHLOROBENZIDENE (3,3'DCB) IN TRACE AMOUNTS. VARIOUS FACTORS INFLUENCE THE TYPES AND AMOUNT OF DEGRADATION PRODUCTS, SUCH AS POLYMER AND PIGMENT TYPE, PIGMENT LOADING, PROCESSING TIME AND TEMPERATURE, ETC.. 3,3'-DICHLOROBENZIDENE IS CLASSIFIED AS A CARCINOGEN BY NIOSH AND OSHA.
HAZARDOUS POLYMERIZATION : WILL NOT OCCUR
CONDITIONS TO AVOID : EXCESSIVE DUST IN VICINITY OF ELECTRICAL OR SPARK GENERATING EQUIPMENT

SECTION F - PERSONAL PROTECTIVE EQUIPMENT INFO

RESPIRATORY EQUIPMENT : USE NIOSH APPROVED RESPIRATOR OR DUST MASK
PROTECTIVE GLOVES : BUTYL RUBBER, NEOPRENE, OR PVC GLOVES RECOMMENDED
EYE PROTECTION : SAFETY GLASSES OR GOGGLES ARE RECOMMENDED
VENTILATION : LOCAL EXHAUST VENTILATION RECOMMENDED TO MAINTAIN AIRBORNE CONCENTRATIONS TO PERMISSIBLE EXPOSURE LEVELS (SEE SECTION B)
OTHER PROTECTIVE EQUIPMENT : PROTECTIVE COVERALLS TO PREVENT SKIN CONTACT