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MATERIAL SAFETY DATA SHEET

Golden Yellow MX 104

Emergency Phone Numbers:
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SECTION 1 - CHEMICAL PRODUCT IDENTIFICATION	
CHEMICAL FAMILY	Reactive Dyes
TRADE NAME	Reactive Yellow MX-3RA
SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS	
All Ingredients are TSCA Registered. See Section 12.	
SECTION 3 - HAZARDS IDENTIFICATION	
Physical hazards - none specifically listed. Health hazards - No ingredients are hazardous. This health hazard assessment is based on a consideration of the composition of this product.	
SECTION 4 - POTENTIAL HEALTH EFFECTS/EFFECTS OF OVEREXPOSURE	
EYE CONTACT	The dry powder may cause eye irritation in some individuals.
SKIN CONTACT	May cause sensitization by skin contact. Repeated and/or prolonged contact may cause skin irritation..
INHALATION	Reactive dyes, of which this is one type, have been associated with respiratory sensitization.
INGESTION	Unlikely to be hazardous, if swallowed.
CHRONIC	No evidence of adverse effects from available information.
EMERGENCY AND FIRST AID PROCEDURES	
EYE CONTACT	Flush with water. If irritation develops, call a physician.
SKIN CONTACT	No harmful effects expected. Wash with soap and water. If symptoms develop, obtain medical attention.
INHALATION	If large quantities have been inhaled, keep airway open as necessary. Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.
INGESTION	No harmful effects expected. Give glass of water to drink. If gastrointestinal symptoms develop, consult medical personnel. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method Used)	Not applicable.		
FLAMMABLE LIMITS IN AIR	Not applicable.		
EXTINGUISHING MEDIA	Use water spray, foam, carbon dioxide or dry chemical.		
SPECIAL FIRE FIGHTING & EQUIPMENT PROCEDURES	Use self-contained breathing apparatus with full-face piece and protective clothing if involved in fire with other materials.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	As with most organic materials, this product should be treated as a combustible dust when in the finely divided and air-suspended state.		
SECTION 6-Spill or Leak Procedure			
STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED	If dry, shovel, vacuum or sweep up and return to container. Wear skin protection during clean up. Use care to minimize the amount of colored material to reach the sewer.		
ENVIRONMENTAL HAZARDS/WASTE DISPOSAL	Discarded product is not a hazardous waste.		
SECTION 7 --SPECIAL PRECAUTIONS			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Normal precautions common to good manufacturing practice should be followed in handling and storage. To maintain best product performance, store in a cool, dry place.		
SECTION 8 -PERSONAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION	The use of a dust respirator is recommended.		
PROTECTIVE GLOVES	Use gloves, apron and arm covers to avoid skin contact.		
EYE PROTECTION	The use of goggles is recommended.		
OTHER PROTECTIVE EQUIPMENT	Eyewash station in work area. Avoid skin contact, stains may be difficult to remove without injuring the skin.		
VENTILATION	Local exhaust ventilation is recommended.		
SECTION 9 - PHYSICAL DATA			
BOILING POINT (°C)	Not applicable.	MELTING POINT (°C)	>300
BULK DENSITY.	0.3 - 0.4 g/ml	SOLUBILITY IN WATER	160 g/l at 30° C
VAPOR PRESSURE (mm Hg)	Not applicable.		
pH, 1% SOLUTION	6.3 - 6.8	MOLECULAR WEIGHT	694
VAPOR DENSITY (AIR = 1)	Not applicable.	SPECIFIC GRAVITY (WATER = 1.0)	Not applicable.
		APPEARANCE AND ODOR	Orange powder. None.

SECTION 10 - REACTIVITY DATA	
STABILITY	Product is stable.
INCOMPATIBILITY	Oxidizing Agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Combustion product of dry material: carbon dioxide, carbon monoxide.
HAZARDOUS POLYMERIZATION	Will not occur.
CONDITIONS TO AVOID	None.
SECTION 11 - TOXICOLOGICAL INFORMATION	
ID50, ORAL, RAT	> 5,000 mg/kg (rat).
DUST INHALATION	No data.
EYE IRRITATION	May cause eye irritation.
SKIN IRRITATION	Repeated and/or prolonged contact may cause skin irritation.
SKIN SENSITIZATION	May cause sensitization by skin contact.
CHRONIC ORAL, RAT	No data.
CHRONIC ORAL, DOG	No data.
3-GENERATION REPRODUCTION, RAT	No data.
AQUATIC TOXICITY: IC50 (rainbow trout; 96 hours)	>100 mg/l (by analogy)
SECTION 12 - REGULATORY INFORMATION	
<p>The ingredients of this product are on the TSCA Chemical Substances Inventory, the Canadian Domestic substances List, and are included in the European Inventory of Existing Commercial Chemical Substances (EINECS). As of the date of this MSDS, they are not specifically regulated under CERCLA, CWA, DOT, OSHA, or TSCA. They are not "toxic" under SARA Title III, nor does the product contain any "toxic" materials in excess of "de minimis concentrations" as defined at 40 CFR 372.38 (a). Also, the manufacturer is unaware of any local, state, or federal regulations, which define this product or its ingredients as hazardous. The OSHA Hazard Communication Standard only requires MSDS's and special labeling for hazardous materials. This MSDS is provided as an information item for our customers.</p>	

While this information and recommendations set forth are believed to be accurate as of the date hereof, the manufacturer makes no warranty with respect hereto and disclaims all liability from reliance thereon.

January 18, 2006