

# MATERIAL SAFETY DATA SHEET

## Strong Orange MX 202

Emergency Phone Numbers:

(Chemtrec) (800) 424-9300

<b>SECTION 1 - CHEMICAL PRODUCT IDENTIFICATION</b>	
CHEMICAL FAMILY	Reactive Dyes
TRADE NAME	Reactive Orange MX-2R
<b>SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS</b>	
All Ingredients are TSCA Registered. See Section 12.	
<b>SECTION 3 - HAZARDS IDENTIFICATION</b>	
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.	
<b>SECTION 4 - POTENTIAL HEALTH EFFECTS/EFFECTS OF OVEREXPOSURE</b>	
EYE CONTACT	The dry powder may cause eye irritation in some individuals.
SKIN CONTACT	May cause sensitization by skin contact. Unlikely to 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.
<b>EMERGENCY AND FIRST AID PROCEDURES</b>	
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.

<b>SECTION 5 - FIRE AND EXPLOSION HAZARD DATA</b>			
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.		
<b>SECTION 6 - SPILL OR LEAK PROCEDURE</b>			
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.		
<b>SECTION 7 - SPECIAL PRECAUTIONS</b>			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Normal precautions common to good manufacturing practice should be followed in handling and storage. Control dust formation. Avoid contact with skin and eyes.		
<b>SECTION 8 - PERSONAL PROTECTION INFORMATION</b>			
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.		
<b>SECTION 9 - PHYSICAL DATA</b>			
BOILING POINT (°C)	Not applicable.	MELTING POINT (°C)	>300
BULK DENSITY	0.3 - 0.4 g/ml	SOLUBILITY IN WATER	180 g/l at 30° C
VAPOR PRESSURE (mm Hg)	Not applicable.		
pH, 1% SOLUTION	6.5 - 7.0	MOLECULAR WEIGHT	715
VAPOR DENSITY (AIR = 1)	Not applicable.	SPECIFIC GRAVITY (WATER = 1.0)	Not applicable.
		APPEARANCE AND ODOR	Orange powder. None.

<b>SECTION 10 - REACTIVITY DATA</b>	
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.
<b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>	
LD50, ORAL, RAT	> 2,000 mg/kg (rat).
DUST INHALATION	No data.
EYE IRRITATION	May cause eye irritation.
SKIN IRRITATION	Unlikely to 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: LC50 (rainbow trout; 96 hours)	> 100 mg/l (by analogy)
<b>SECTION 12 - REGULATORY INFORMATION</b>	

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.

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