

M A T E R I A L   S A F E T Y   D A T A   S H E E T

POLYURETHANE RED OXIDE PRIMER

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PRODUCT NAME: POLYURETHANE RED OXIDE PRIMER  
 PRODUCT CODE: MM-105

H M I S   C O D E S :   H F R P  
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===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: LANCO MFG. CORP.  
 ADDRESS : URB. APONTE #5  
           SAN LORENZO, PUERTO RICO  
           00754  
 EMERGENCY PHONE : (787) 736-4200      DATE PRINTED : 12/03/02  
 INFORMATION PHONE : (787) 736-4200      NAME OF PREPARER : LANCO MFG. CORP.

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
ALIPHATIC SOLVENT	64742-89-810	20 68 F	
POLYURETHANE RESIN	MIXTURE	N/A N/A	
ACGIH TLV 100 ppm 8 hours			
CALCIUM BOROSILICATE	13701-64-90	0	
ZIRCONIUM 24%	22464-99-910	25 C	
* COBALTO 12%	MIXTURE 1	77	0.1
OSHA PEL: 500 PPM, ACGIH TLV: 100 PPM, OTHER: N/A			

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 240-285 F - 380 deg F      SPECIFIC GRAVITY (H2O=1): 1.27  
 VAPOR DENSITY: HEAVIER THAN AIR      EVAPORATION RATE: SLOWER THAN ETHER  
 COATING V. O. C. : 3.70 lb/gl      MATERIAL V. O. C. : 3.43 lb/gl  
 SOLUBILITY IN WATER: NON SOLUBLE  
 APPEARANCE AND ODOR: RED COLOR

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 50 F      METHOD USED: TCC  
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .9      UPPER: 7.0

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES  
 RESPIRATORY EQUIPMENT SHOULD BE WORN TO AVOID INHALATION OF CONCENTRATED VAPOR. WATER SHOULD NOT BE USED EXCEPT AS FOG TO KEEP NEARBY CONTAINERS COOL.

UNUSUAL FIRE AND EXPLOSION HAZARDS  
 EXTREMELY FLAMMABLE. VAPORS MAY IGNITE EXPLOSIVELY AND/OR CAUSE FLASH FIRES. ELIMINATE SOURCES OF IGNITION. NO SMOKING. USE ADEQUATE CROSS VENTILATION SUFFICIENT TO REMOVE ODOR OF SOLVENT AND VAPORS.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE  
 CONDITIONS TO AVOID  
 EXCESSIVE HEAT, POOR VENTILATION, CORROSIVE ATMOSPHERES, EXCESSIVE AGING.

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG OXIDIZING AGENTS, STRONG ACIDS AND OXIDIZING MATERIALS, ALKALINE MATERIALS.

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HAZARDOUS DECOMPOSITION OR BYPRODUCTS  
CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
ACUTE SIGNS OF OVEREXPOSURE COULD BE HEADACHE, DIZZINESS NAUSEA, UPPER RESPIRATORY DRYNESS OR IRRITATION, DROWSINESS, MENTAL DEPRESSION OR NARCOSIS.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
EYE CONTACT: SEVERE IRRITATION, TEARING, REDNESS AND BLURRED VISION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
SKIN CONTACT: CAN DRY AND DEFEAT SKIN CAUSING CRACKS, IRRITATION, AND DERMATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.

HEALTH HAZARDS (ACUTE AND CHRONIC)  
INHALATION- DIZZYNESS, BREATHING DIFFICULTY, HEADACHES, LOSS OF COORDINATION. EYE CONTACT- SEVERE IRRITATION, TEARING, REDNESS, AND BLURRED VISION. SKIN CONTACT- CAN DRY AND DEFEAT SKIN CAUSING CRACKS, IRRITATION AND DERMITITIS. INGESTION- CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING NAUSEA, DIARRHEA. NO CHRONIC HEALTH EFFECTS.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No NONE

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE  
ANESTHESIA, RESPIRATORY TRACT IRRITATION, DERMITITIS, NAUSEA, VOMITING.

EMERGENCY AND FIRST AID PROCEDURES  
INHALATION OVEREXPOSURE - MOVE PERSON TO FRESH AIR. IF BREATHING STOPS, APPLY ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATENTION. EYE CONTACT- FLUSH WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES. SKIN CONTACT- WASH THOROUGHLY WITH SOAP AND WATER AND SEE A DOCTOR. INGESTION DO NOT INDUCE VOMITING, CAN CAUSE CHEMICAL PHEUMONITIS AND PULMONARY EDEMA. CONTACT PHYSICAL IMMEDIATELY.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
REMOVE SOURCES OF IGNITIONS, PROVIDE GOOD VENTILATION, DIKE SPILL AREA ADD ABSORBENT EARTH OR SAWDUST TO SPILLED LIQUID. THOROUGHLY WET W/ WATER AND MIX.

WASTE DISPOSAL METHOD  
COLLECT ABSORBENT/ WATER/ SPILLED LIQUID MIXTURE INTO METAL CONTAINERS AND ADD ENOUGH WATER TO COVER. CONSULT LOCAL, STATE & FEDERAL HAZARDOUS WASTE REGULATION BEFORE DISPOSING INTO APPROVED HAZARDOUS WASTED LANDFILLS. OBEY RELEVANT LAW.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING  
KEEP CONTAINERS CLOSED WHEN NOT IN USE. STORE 60-95 F OUT OF SUN. USE ADEQUATE VENTILATION TO AVOID BREATHING VAPOR WHEN COVER REMOVED. KEEP AWAY EXESSIVE HEAT AND OPEN FLAMES.

OTHER PRECAUTIONS

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GROUND ALL EQUIPMENT WHEN HANDLING FLAMMABLE SOLVENT BORNE MATERIALS. SMOKING IN AREA WHERE THIS MATERIAL IS USED SHOULD BE STRICTLY PROHIBITED.

===== SECTION VIII - CONTROL MEASURES =====

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**RESPIRATORY PROTECTION**

WHEN SPRAYING THIS MATERIAL USE A NIOSH APPROVED CARTRIDGE RESPIRATOR OR GAS MASK SUITABLE TO KEEP AIRBORNE MISTS AND VAPOR CONCENTRATIONS BELOW THE TIME WEIGHTED THRESHOLD LIMIT VALUES. WHEN USING IN POORLY VENTILATED AND CONFINED SPACES, USE A FRESH-AIR SUPPLYING RESPIRATOR OR A SELF- CONTAINED BREATHING APPARATUS.

**VENTILATION**

SUFFICIENT TO KEEP WORKROOM CONCENTRATION BELOW TLV. VENTILATION EQUIP. MUST BE EXLPOSITION PROOF.

**PROTECTIVE GLOVES**

CHEMICALS RESISTANT GLOVES.

**EYE PROTECTION**

USE CHEMICAL SAFETY GLASSES, GOGGLES, AND FACESHIELDS FOR EYE PROTECTION.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

USE IMPERMEABLE APRONS AND PROTECTIVE CLOTHING WHENEVER POSSIBLE TO PREVENT SKIN CONTACT. THE USE OF HEAD CAPS WHENEVER POSSIBLE IS STRONGLY RECOMMENDED.

**WORK/HYGIENIC PRACTICES**

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE IS RECOMMENDED.

===== SECTION IX - DISCLAIMER =====

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