

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

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PRODUCT NAME: MIROFLEX INDUSTRIAL ALKYD ENAMEL HMIS CODES: H F R P
PRODUCT CODE: 450-015 1 0 0

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: KELLY-MOORE PAINT COMPANY
ADDRESS : 987 Commercial Street
San Carlos, CA 94070 REVISION DATE: April 1, 2004
EMERGENCY PHONE : (800) 424-9300 DATE PRINTED: 4/1/2004
INFORMATION PHONE : (800) 874-4436 NAME OF PREPARER: S.HISEROTE

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

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
ALIPHATIC HYDROCARBONS PEL: 100 PPM TLV: 100 PPM	8052-41-3	2 68 deg	F 30
XYLENE TLV: 655 mg/m3	1330-20-7	5.10 68 deg	F 0

* 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 POINT: 315 deg F SPECIFIC GRAVITY (H2O=1): 1.17
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: LOWER THAN ETHER
COATING V.O.C.: 412 g/l MATERIAL V.O.C.: 409 g/l
SOLUBILITY IN WATER: NEGLIGIBLE
APPEARANCE AND ODOR: CLEAR AND PIGMENTED COATINGS WITH CHARACTERISTIC ODOR

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

FLASH POINT: 105 Deg F METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0% UPPER: 13.3%
EXTINGUISHING MEDIA: USE APPROVED CLASS B FIRE EXTINGUISHER OR EXTINGUISHING
SPECIAL FIREFIGHTING PROCEDURES:
FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED TO PROTECT FROM COMBUSTION BY-PRODUCTS. COOL CLOSED CONTAINERS WITH WATER FOG TO PREVENT PRESSURE BUILDUP.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
KEEP CONTAINERS TIGHTLY CLOSED. VAPOR IS DENSER THAN AIR AND CAN TRAVEL AND COLLECT IN LOW SPOTS. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. DO NOT APPLY TO HOT SURFACES. CAN CAUSE SPONTANEOUS COMBUSTION. (CONTAMINATED RAGS, ETC.)

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

STABILITY: STABLE
CONDITIONS TO AVOID: NONE REASONABLY FORESEEABLE.
INCOMPATIBILITY (MATERIALS TO AVOID): MAY REACT WITH STRONG OXIDIZING MATERIALS
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: OXIDES OF CARBON.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
MAY CAUSE NOSE AND THROAT IRRITATION. MAY CAUSE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING STEPS: HEADACHE, DIZZINESS, NAUSEA, STAGGERING GAIT, CONFUSION AND UNCONSCIOUSNESS.
SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
REPEATED OR PROLONGED LIQUID CONTACT MAY CAUSE SKIN IRRITATION WITH DISCOMFORT AND DERMATITIS. MAY CAUSE IRRITATION OR BURNING OF THE EYES.
SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
REDNESS OF SKIN WITH A BURNING SENSATION.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
IF INGESTED MAY CAUSE GASTRO-INTESTINAL DISTRESS.

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HEALTH HAZARDS (ACUTE AND CHRONIC):

OVEREXPOSURE TO SOLVENTS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, CARDIOPULMONARY FAILURE, LIVER AND KIDNEY DAMAGE AND BIRTH DEFECTS. CHRONIC: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. UNDER NORMAL CONSUMER USE CONDITIONS THE LIKELIHOOD OF ANY ADVERSE HEALTH EFFECTS ARE LOW. OVERSPRAY/MISTS ARE PRIMARILY CONSIDERED NUISANCE DUST. PIGMENTS ARE NOT NORMALLY CONSIDERED HAZARDOUS IN A MIX.

CARCINOGENICITY: NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No
NO INFORMATION FOUND.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING CONDITIONS INVOLVING SKIN, LIVER, KIDNEY, AND PULMONARY DISORDERS.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: FLUSH WITH WATER FOR AT LEAST FIFTEEN MINUTES. CALL A PHYSICIAN. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND WASH EXPOSED AREA WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING DIFFICULTY PERSISTS OR OCCURS LATER, CONSULT A PHYSICIAN. IN THE UNLIKELY EVENT OF INGESTION DRINK A GLASS OF WATER AND CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING.

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. PREVENT SKIN CONTACT AND BREATHING OF VAPORS. CONFINE AND REMOVE WITH INERT ABSORBENT MATERIAL. USE SPARK PROOF TOOLS.

WASTE DISPOSAL METHOD:

DO NOT ALLOW MATERIAL TO CONTAMINATE GROUND WATER SYSTEMS. ABSORB LARGE SPILLS WITH INERT ABSORBENT MATERIAL. DISPOSE OF ABSORBED MATERIAL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATORY REQUIREMENTS. DO NOT INCINERATE IN CLOSE CONTAINERS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

OBSERVE LABEL PRECAUTIONS. KEEP AWAY FROM EXCESSIVE HEAT, SPARKS AND OPEN FLAME. KEEP CLOSURES TIGHT WHEN NOT IN USE. STORE IN AN UPRIGHT POSITION TO PREVENT LEAKAGE. GROUND CONTAINERS WHEN POURING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR SMOKING. DO NOT STORE ABOVE 100 Deg.F. KEEP AND STORE OUT OF REACH OF CHILDREN.

OTHER PRECAUTIONS:

DO NOT SAND, FLAME CUT, BRAZE OR WELD DRY COATING WITHOUT WEARING A NIOSH/MSHA APPROVED RESPIRATOR OR APPROPRIATE VENTILATION. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTY CONTAINERS RETAIN RESIDUES, ALL HAZARD PRECAUTIONS MUST BE OBSERVED. WHEN SPRAYING THIS MATERIAL KEEP SPRAY BOOTH CLEAN. AVOID BUILDUP OF SPRAY DUST OR OVERSPRAY IN BOOTH OR DUCTS.

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

RESPIRATORY PROTECTION:

PROPERLY FITTED VAPOR/PARTICULATE RESPIRATOR APPROVED BY OSHA/MSHA.

VENTILATION:

SUFFICIENT IN PATTERN AND VOLUME TO KEEP VAPORS BELOW APPLICABLE OSHA REQUIREMENTS. USE EXPLOSION-PROOF MECHANICAL DEVICE IF REQUIRED.

PROTECTIVE GLOVES: SOLVENT IMPERVIOUS GLOVES.

EYE PROTECTION: GOGGLES OR SAFETY GLASSES WITH SIDE SHIELD.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

SAFETY SHOWER AND EYE BATH. COVERALLS ARE RECOMMENDED. A SOLVENT IMPERVIOUS APRON IS RECOMMENDED IF BODY CONTACT MAY OCCUR.

WORK/HYGIENIC PRACTICES:

WASH CONTAMINATED CLOTHING BEFORE REUSE. PERIODIC MONITORING OF EXPOSURE LEVELS/LIMITS IS RECOMMENDED.

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

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE. IT IS TRUE & ACCURATE TO THE BEST OF OUR KNOWLEDGE, BUT IS NOT INTENDED TO BE ALL INCLUSIVE. USERS SHOULD CONSIDER THIS INFORMATION AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM & MUST MAKE THEIR OWN DETERMINATION OF SUITABILITY & COMPLETENESS TO ASSURE PROPER USE & DISPOSAL.