

MADE FOR KELLY MOORE 1470-100  
**MATERIAL SAFETY DATA SHEET**  
**FOR COATINGS, RESINS & RELATED MATERIALS**

**SECTION I**  
**PRODUCT IDENTIFICATION**

<b>Manufacturer:</b>	Ennis Paint, Inc.	<b>Information Ph:</b>	800-331-8118
	1509 S. Kaufman	<b>Emergency Ph:</b>	800-424-9300
	Ennis, Texas 75120	<b>Revised: 03/11/08</b>	
<b>Product Class:</b>	985171 Traffic Marking Paint White		
<b>DOT SHIPPING NAME:</b>	PAINT	<b>HAZARD RATINGS HMIS/NFPA:</b>	
<b>C.A.S. Number:</b>	Mixture- n/a	NONE-EXTREME	HEALTH 1
<b>UN/ID Number:</b>	1263	0 - 4	FIRE 3
<b>CLASS:</b>	3		PHYSICAL HAZARD 1
<b>PACKING GROUP:</b>	II		

**SECTION II**  
**HAZARDOUS INGREDIENTS**

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	mm Hg	@ TEM P	PERCENT
AROMATIC HYDROCARBON	64742-94-5	100 PPM	N.E.	5	100F	0-1 %
CALCIUM CARBONATE	1317-65-3	15 MG/CU M	2 MG/CU M			15-25 %
COLBALT ALKANOATE SOLUTION	PROPRIETARY	N.E.	N.E.	6	68F	0-1 %
* HEPTANE	142-82-5	500 PPM		40	68F	3-12 %
MAGNESIUM SILICATE	14807-96-6	10 MG/M <sup>3</sup>	15 MG/CU M <sup>3</sup>			25-35 %
*METHYL ALCOHOL	67-56-1	200 PPM	200 PPM	97	68F	0-1 %
METHYL ETHYL KETOXIMINE	96-29-7	N.E.	N.E.	2	68F	0-1 %
ALKYL QUATERNARY AMMONIUM BENTONITE	68953-58-2	10 MG/M <sup>3</sup>	0.1 MG/M <sup>3</sup>			0-1 %
SOY LECITHIN	8030-76-0	N.E.	N.E.			0-1 %
TITANIUM DIOXIDE	13463-67-7	15 MG/M <sup>3</sup>	10 MG/M <sup>3</sup>			5-15 %
*TOLUENE	108-88-3	200 PPM	50 PPM	7	68F	8-12 %
PIGMENT ORGANIC YELLOW	52320-66-8	N.E.	N.E.			0-1 %

**SECTION III**  
**PHYSICAL DATA**

<b>BOILING RANGE:</b>	148 to 247°F	<b>VAPOR DENSITY:</b>	Heavier than Air
<b>EVAPORATION RATE:</b>	SLOWER THAN ETHER	<b>LIQUID DENSITY:</b>	1.4-1.6 kg/l @ 20°C
<b>APPEARANCE:</b>	Colored Heavy Liquid	<b>SOLUBILITY IN WATER:</b>	0

**SECTION IV**  
**FIRE AND EXPLOSION HAZARD DATA**

<b>FLAMMABILITY CLASS: FLAMMABLE LIQUID</b>	<b>FLASHPOINT: TCC</b>	<b>23° F</b>
<b>Lower Flammable Limit:</b>	<b>1.1</b>	<b>Upper Flammable Limit:</b>
<b>Auto Ignition Temperature:</b>	<b>&gt;450 ° F</b>	<b>7</b>

EXTINGUISHING MEDIA:

- FOAM, DRY CHEMICAL, OR CARBON DIOXIDE

SPECIAL FIREFIGHTING PROCEDURES:

- EVACUATE ENCLOSED AND SURROUNDING AREAS. AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE DEMAND. MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR. USE WATER SPRAY TO COOL CONTAINERS EXPOSED TO FIRE AND DISPERSE VAPORS. KEEP SPILLS AWAY FROM SOURCES OF IGNITION AND AVOID STATIC DISCHARGE.

UNUSUAL FIRE & EXPLOSION HAZARDS:

- KEEP CONTAINERS TIGHTLY CLOSED. VAPORS ARE HEAVIER THAN AIR AND CAN FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.
- ISOLATE FROM HEAT, SPARKS AND OPEN FLAME.
- CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

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## SECTION V HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

- EYE: MAY CAUSE MODERATE EYE IRRITATION. CORNEAL INJURY IS UNLIKELY
- SKIN: THIS MATERIAL MAY CAUSE MODERATE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION LEADING TO DERMATITIS. SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS CONDITION.
- INGESTION: INGESTION IS NOT AN EXPECTED ROUTE OF EXPOSURE. EARLY SYMPTOMS OF EXPOSURE DUE TO LEAD ARE FATIGUE, DISTURBANCE OF SLEEP, AND CONSTIPATION, WITH MORE SEVERE EXPOSURES FOLLOWED BY COLIC, ANEMIA AND NEURITIS (NERVE INFLAMMATION). PROLONG OVEREXPOSURE CAN SEVERELY DAMAGE TO THE RED BLOOD CELL FORMATION, KIDNEYS, AND NERVOUS SYSTEM. OTHER SYMPTOMS INCLUDE LOSS OF APPETITE, METALLIC TASTE IN MOUTH, NAUSEA, HEADACHES, DIZZINESS, AND HYPERTENSION. THE SOLVENT/ALCOHOL PORTION OF THE PAINT MAY CAUSE BLURRED VISION, CONSTRICTED VISUAL FIELDS, CHANGES IN COLOR PERCEPTION, DOUBLE VISION AND BLINDNESS.
- INHALATION: HIGH VAPOR CONCENTRATIONS (GREATER THAN APPROXIMATELY 1,000 PPM) ARE IRRITATION TO THE EYES AND THE RESPIRATORY TRACT, MAY CAUSE HEADACHES, DIZZINESS, VOMITING, COUGHING, DROWSINESS, DISTURBED VISION, UNCONSCIOUSNESS, AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DEATH
- SYSTEMIC: SYSTEMIC TOXICITY NOT KNOWN TO OCCUR UNDER NORMAL CIRCUMSTANCES. PROLONGED AND REPEATED OVEREXPOSURE TO SOLVENTS MAY CAUSE NERVOUS SYSTEM EFFECTS, HALLUCINATIONS, BEHAVIOR CHANGES, DOUBLE VISION, DIFFICULTY WALKING, CONVULSIONS, AND AT THE EXTREME LEVELS, A COMA.

FIRST AID MEASURES:

- EYES: IF PRODUCT OR VAPORS CONTACT THE EYES, IMMEDIATELY WASH THE EYES WITH LARGE AMOUNTS OF ROOM TEMPERATURE WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE LOWER AND UPPER LIDS. GET MEDICAL ATTENTION IMMEDIATELY. A FOLLOW UP VISIT TO AN OPHTHALMOLOGIST SHOULD BE MADE IF SYMPTOMS PERSIST. CONTACT LENS SHOULD NOT BE WORN WORKING WITH CHEMICALS SINCE CHEMICALS COULD GET TRAPPED IN THE EYE
- SKIN: IF PRODUCT CONTACTS THE SKIN, PROMPTLY WASH THE CONTAMINATED SKIN WITH SOAP AND WATER. IF THE PRODUCT PENETRATES THE CLOTHING, PROMPTLY REMOVE THE CLOTHING AND WASH THE SKIN WITH SOAP AND

WATER. SEEK MEDICAL ASSISTANCE IF THE IRRITATION PERSISTS OR CONTACT HAS BEEN PROLONGED.

- **INGESTION:** NOT AN ANTICIPATED ROUTE OF EXPOSURE. IF PRODUCT IS INGESTED (SWALLOWED), AND THE PERSON IS CONSCIOUS, INDUCE VOMITING IMMEDIATELY ONLY IF A PHYSICIAN HAS BEEN CONTACTED, GIVE 2 TEASPOONS OF BAKING SODA IN A GLASS OF WATER. DO NOT INDUCE VOMITING IN AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.
- **INHALATION:** REMOVE PATIENT TO FRESH AIR AWAY FROM THE CONTAMINATED AREA. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. ADMINISTER HUMIDIFIED OXYGEN ONLY AFTER CONSULTING A PHYSICIAN, WHICH SHOULD BE DONE IMMEDIATELY.

NOTE TO PHYSICIAN: DUE TO INCREASED RISK OF CHEMICAL PNEUMONIA OR PULMONARY EDEMA CAUSED BY ASPIRATION OF PRODUCT INTO THE LUNGS, VOMITING SHOULD BE INDUCED ONLY UNDER PROFESSIONAL SUPERVISION. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT. THIS PRODUCT MAY CONTAIN LEAD AND SOLVENTS AS INDICATED IN SECTION 2.

#### TOXICOLOGICAL INFORMATION:

- **EYES:** NOT DETERMINED
- **SKIN:** SKIN IS A LOW ORDER TOXICITY.
- **INGESTION:** FREQUENT INGESTION MAY CAUSE DELAY INJURY INVOLVING THE KIDNEY, BLOOD, GASTROINTESTINAL, NERVOUS AND REPRODUCTIVE SYSTEM.
- **INHALATION:** THE INHALATION OF PRODUCTS WHICH CONTAIN TOLUENE MAY BE HARMFUL TO THE FETUS AND MAY CAUSE HIGH FREQUENCY HEARING LOSS BASED ON STUDIES PERFORMED ON LABORATORY ANIMALS. MISUSE OR DELIBERATE EXPOSURE MAY BE ASSOCIATED WITH LIVER, KIDNEY AND BRAIN DAMAGE IN HUMANS. HEARING LOSS IN HUMANS IS UNCERTAIN.
- **ACUTE:** HEADACHES, WEAKNESS, DROWSINESS, LIGHTHEADEDNESS, NAUSEA, VOMITING, DRUNKENNESS, BLURRED VISION, DRYING OF THE SKIN WHICH CAN RESULT IN DERMATITIS.
- **CHRONIC/CARCINOGENICITY:** RISK OF CANCER DEPENDS ON ROUTE, DURATION AND LEVEL OF EXPOSURE. IN EVALUATION LEAD CHROMATE, THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS DETERMINED THAT THERE IS SUFFICIENT EVIDENCE OF CARCINOGENICITY IN HUMANS (GROUP 1). THE NATIONAL TOXICOLOGY PROGRAM (NTP) CLASSIFIES LEAD CHROMATE AS A KNOWN HUMAN CARCINOGEN
- **TERATOLOGY:** (THE STUDY OF MALFORMATIONS, MONSTROSITIES, OR SERIOUS DEVIATIONS FROM THE NORMAL TYPE IN ORGANISMS). NO RELEVANT INFORMATION FOUND.
- **REPRODUCTIVE:** THE "OSHA LEAD STANDARD" REPORTS THAT LEAD MAY IMPAIR THE REPRODUCTIVE SYSTEM OF BOTH MEN AND WOMEN. DAMAGE MAY ALSO BE CAUSED TO THE UNBORN FETUS.
- **MUTAGENICITY:** (A SIGNIFICANT OR BASIC ALTERATION OF GENETIC MATERIAL INVOLVING EITHER PHYSICAL CHANGE IN CHROMOSOME RELATIONS OR A BIOLOGICAL CHANGE IN THE GENES). – NO KNOW EVIDENCE OF MUTAGENICITY.

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## SECTION VI REACTIVITY DATA

#### STABILITY

- STABLE

#### CONDITIONS TO AVOID

- HEAT AND IGNITION SOURCES,

- EXTREME HEATING
  - STATIC DISCHARGE
- INCOMPATIBILITY (MATERIALS TO AVOID)
- OXIDIZING MATERIAL, ACIDS & BASES
- HAZARDOUS POLYMERIZATION & DECOMPOSITION
- MAY OCCUR WHEN EXPOSED TO EXCESSIVE HEATING.
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## SECTION VII SPILL OR LEAK PROCEDURES

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

- REMOVE ALL SOURCES OF HEAT, SPARKS, FIRE OR OPEN FLAME.
- COLLECT IN AN APPROPRIATE CHEMICAL WASTE CONTAINER. ADSORB SPILL WITH INERT MATERIAL.
- AVOID HOT METAL SURFACES.
- AVOID STATIC DISCHARGE.

WASTE DISPOSAL METHOD:

- EMPTY CONTAINERS MUST BE HANDLED WITH CARE DUE TO PRODUCT RESIDUE. DO NOT HEAT, WELD OR CUT THE EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCH. DO NOT REUSE CONTAINERS.
  - DO NOT DISCHARGE TO SOIL, WATERWAYS, OR SEWERS. DISPOSE OF IN ACCORDANCE WITH, LOCAL, STATE, AND FEDERAL REGULATIONS. REGULATION VARIES IN DIFFERENT LOCATIONS. WASTE CHARACTERIZATIONS AND COMPLIANCE WITH APPLICABLE LAWS ARE THE SOLE RESPONSIBILITY OF THE WASTE GENERATOR. REFER TO THE EPA " RESOURCE CONSERVATION RECOVERY ACT" (RCRA) (40 CFR PART 261.20-24) TO MAKE YOUR HAZARDOUS DETERMINATION.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

- WEAR APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) DURING SPRAYING APPLICATION TO PROTECT AGAINST OVERSPRAY.

VENTILATION:

- ADEQUATE VENTILATION IS NECESSARY WHEN SPRAYING OR MIXING AND EXHAUST WITH PROPER AIRFLOW IS ALWAYS RECOMMENDED.
- AVOID ANY DIRECT INHALATION OF SPRAY MIST IF THIS PRODUCT IS SPRAYED.

PROTECTION GLOVES:

- IN PERMEATION TESTS, BUTYL AND NITRILE RUBBER GLOVES PERFORM BETTER THAN LATEX. GLOVES SHOULD BE REPLACED FREQUENTLY.

EYE PROTECTION:

- CLOSELY FITTING SAFETY GOGGLES SHOULD BE WORN AT ALL TIMES. CONTACTS SHOULD NEVER BE WORN WHILE WORKING WITH CHEMICALS

OTHER PROTECTIVE EQUIPMENT:

- MAY ADHERE TO SKIN - GLOVES, LONG SLEEVES, HATS AND FACE SHIELDS ARE STRONGLY RECOMMENDED.
  - TRAIN AND EDUCATE EMPLOYEES IN THE SAFE USE OF THE PRODUCT.
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## SECTION IX SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

- PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE.
  - GROUND ALL EQUIPMENT TO REDUCE STATIC ELECTRICITY HAZARD.
  - DO NOT APPLY TO HOT SURFACES OR USE IN AREAS EXPOSED TO ELECTRIC SPARKS.
  - KEEP AWAY FROM HEAT, OPEN FLAMES, OR OTHER SOURCES OF IGNITION.
  - KEEP CONTAINERS CLOSED WHEN NOT IN USE. STORE ONLY IN APPROVED CONTAINERS.
  - OPEN CONTAINER SLOWLY TO RELEASE PRESSURE.
  - ENSURE AREA IS WELL VENTILATED, POST AREA "NO SMOKING OR OPEN FLAME".
  - INDOOR STORAGE AREA SHOULD MEET OSHA STANDARDS AND APPROPRIATE FIRE CODES
  - DO NOT LOAD INTO COMPARTMENTS ADJACENT TO HEATED CARGO
  - DO NOT ENTER CONFINED SPACES SUCH AS TANKS OR PITS WITHOUT FOLLOWING PROPER ENTRY PROCEDURES SUCH AS ASTM D-4276 AND 29 CFR 1910.146.
  - PRACTICE REASONABLE CARE TO AVOID REPEATED, PROLONGED SKIN CONTACT. WASH THOROUGHLY WITH SOAP AND WATER AFTER CONTACT.
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**SECTION X  
ADDITIONAL REGULATORY INFORMATION**

**SARA TITLE III SECTION 313:**

SEE PAGE 1- SECTION 2 HAZARDOUS INGREDIENTS FOR REPORTING REQUIREMENTS OF SECTION 313 OF THE TITLE III OF THE SUPERFUND AMENDMENTS & REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372.65 AND/OR SECTION 302-304, 311 AND 312 OF THE FEDERAL EMERGENCY PLANNING AND RIGHT-TO-KNOW ACTS (EPCRA). ALL COMPONENTS WITH " \* " ARE REPORTABLE.

**TSCA-U.S. TOXIC SUBSTANCES CONTROL ACT:**

ALL COMPONENTS OF THIS MIXTURE ARE IN COMPLIANCE WITH THE INVENTORY LISTING REQUIREMENTS OF THE U.S. TOXIC SUBSTANCES CONTROL ACT (TSCA) CHEMICAL SUBSTANCES INVENTORY.

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**SECTION XI  
MISCELLANEOUS INFORMATION**

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THE INFORMATION OFFERED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE, BUT ALL RECOMMENDATIONS ARE MADE WITHOUT WARRANTY, EXPRESS OR IMPLIED, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, NEITHER ENNIS PAINT, INC., NOR ITS AGENTS SHALL BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING FROM THE USE OR THE INABILITY TO USE THE PRODUCT DESCRIBED HEREIN. NO PERSON IS AUTHORIZED TO MAKE ANY STATEMENT OR RECOMMENDATION NOT CONTAINED IN THE MATERIAL DATA SHEET, AND ANY SUCH STATEMENT OR RECOMMENDATION, IF MADE SHALL NOT BIND THE CORPORATION.