

**MATERIAL SAFETY DATA SHEET  
FOR COATINGS, RESINS & RELATED MATERIALS**

**SECTION I**

**PRODUCT IDENTIFICATION**

Manufacturer Ennis Paint, Inc. Information Ph: 800-331-8118  
 P.O. Box 404 Emergency Ph: 800-424-9300  
 Ennis, Texas 75120 Revised: 5/5/04  
 Product Class: Preformed Reflective Thermoplastic Roadmarking Compound

Trade Name: FLAMETAPE  
 CAS. Number: THERMALINE  
 N/A – Formula Mixture

<b>HAZARD RATINGS:</b>	HTH	1
NONE-EXTREME	FIRE	1
0 - 4	REACTIVITY	1

**SECTION II**

**HAZARDOUS INGREDIENTS**

Applies to Leaded Yellow Only

INGREDIENTS	CAS #	wt %	ACGIH/TLV	Exposure Limits	
				OSHA/PEL	
Silica Encapsulated					
Pigment Yellow 34 * Established	116565-74-3	10.0 MAX	Not Established		Not

\*Contains 2-10% chrome yellow pigment (encapsulated lead chromate and other lead compounds). As noted in OSHA lead standard, repeated prolonged exposure to lead chromate may cause delayed effects involving the blood, gastrointestinal, nervous and reproductive systems. However, this product contains encapsulated lead chromate, a much safer form. **All other colors including White and lead free yellow products do not contain any hazardous ingredients.**

**SECTION III  
PHYSICAL DATA**

<b>BOILING POINT:</b>	Not Applicable	<b>VAPOR DENSITY:</b>	Not Applicable
<b>EVAPORATION RATE:</b>	Not Applicable	<b>VAPOR PRESSURE:</b>	Not Applicable
<b>APPEARANCE:</b>	Flat Strips	<b>SOLUBILITY IN WATER:</b>	Not Applicable
<b>SPECIFIC GRAVITY:</b>	1.9-2.1	<b>MELTING POINT:</b>	R&B 95-120°C
Odor:	Odorless		

**SECTION IV**

**FIRE AND EXPLOSION HAZARD DATA**

<b>FLASHPOINT-COC</b>	>500°F	<b>LEL:</b> N/A	<b>UEL:</b> N/A
-----------------------	--------	-----------------	-----------------

EXTINGUISHING MEDIA:  
 Water, Dry Chemical, CO2, Foam

SPECIAL FIREFIGHTING PROCEDURES:  
 DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO THERMAL DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZZARD. AN APPROVED SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN.

UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

---

## SECTION V REACTIVITY DATA

**STABILITY:**     UNSTABLE                     **STABLE**  
**HAZARDOUS POLYMERIZATION:**     MAY OCCUR                     **WILL NOT OCCUR**  
**INCOMPATIBILITY:**                    Strong Oxidation Agents  
**CONDITIONS TO AVOID:**            None  
**HAZARDOUS DECOMPOSITION PRODUCTS:** May include CO, Co<sub>2</sub>, and Aliphatic Aldehydes.

---

## SECTION VI HEALTH HAZARD DATA

PERMISSABLE EXPOSURE LEVEL:

- SEE SECTION II FOR INFORMATION ABOUT INDIVIDUAL INGREDIENTS.

ACUTE EXPOSURE:

- **INHALATION:** NONE KNOWN
- **EYES:** GLASS BEADS OR DUST MAY CAUSE IRRITATION.
- **SKIN:** MOLTEN MATERIAL CAN CAUSE SERIOUS BODILY BURNS.
- **INGESTION:** NONE KNOWN

CHRONIC EXPOSURE:

- **Inhalation:** NO CHRONIC EXPOSURE EFFECTS ARE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES:

- **EYES:** FLUSH THOROUGHLY WITH WATER, GET IMMEDIATE MEDICAL ATTENTION IF CONTACT OCCURRED WITH MOLTEN MATERIAL OR IF IRRITATION PERSISTS.
- **SKIN:** WASH EXPOSED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. IF CONTACT OCCURRED WITH MOLTEN THERMOPLASTIC APPLY WATER OR ICE PACK IMMEDIATELY. DO NOT ATTEMPT TO REMOVE LARGE PATCHES OF AFFIXED THERMOPLASTIC FROM SKIN, SEEK PROMPT MEDICAL ATTENTION
- **INHALATION:** MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR IF SYMPTOMS OF OVEREXPOSURE DEVELOP, GET MEDICAL ATTENTION. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.
- **INGESTION:** IF LARGE AMOUNTS ARE INGESTED, INDUCE VOMITING. SEEK APPROPRIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON

---

## SECTION VII SPILL OR LEAK PROCEDURES

WASTE DISPOSAL METHOD:

- Dispose of in accordance with local, state and federal regulations.
- Avoid discharge to natural waters.

---

## SECTION VIII SPECIAL PROTECTION INFORMATION

### RESPIRATORY PROTECTION:

- WEAR APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/OSHA APPROVED) DURING APPLICATION. IF APPLICATION IS LIKELY TO EXCEED ACCEPTABLE CRITERIA. SPECIFICALLY A NIOSH APPROVED ORGANIC VAPOR/DUST FILTRATION TYPE IS RECOMMENDED

### VENTILATION:

- ADEQUATE VENTILATION IS NECESSARY WHEN APPLYING OR MIXING AND EXHAUST WITH PROPER AIRFLOW IS ALWAYS RECOMMENDED.
- AVOID ANY DIRECT INHALATION OF HEATED MATERIAL.

### EYE PROTECTION:

- WEAR APPROVE SAFETY FACE SHIELD, THIS WILL HELP PREVENT EYE INJURY.

### OTHER PROTECTIVE EQUIPMENT:

- GLOVES, LONG SLEEVES, HATS AND FACE SHIELDS ARE RECOMMENDED TO PREVENT THE POSSIBILITY OF BURNS.
- TRAIN AND EDUCATE EMPLOYEES IN THE SAFE USE OF THE PRODUCT.

---

## SECTION IX SPECIAL PRECAUTIONS

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

- PROTECT FROM MOISTURE DAMAGE WITH APPROPRIATE COVERINGS
- REMOVE ALL IGNITION SOURCES FROM MATERIAL HANDLING, TRANSFER, AND PROCESSING AREAS. MECHANICAL AND LOCAL EXHAUST SHOULD BE PROVIDED IN UNVENTILATED WORK AREAS.

---

## SECTION X ADDITIONAL REGULATORY INFORMATION

DOT CLASSIFICATION: NON-REGULATED COMMODITY.

DOT PROPER SHIPPING NAME: COMPOUND PAVEMENT MARKING

### 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.

**The following applies to Leaded Yellow Only; All other colors including White and lead free yellow products do not contain lead or chromium.**

SARA TITLE III SECTION 313:

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#	CHEMICAL NAME	PERCENT BY WEIGHT
7440-47-3	Elemental Chromium	1.2 Maximum
7440-92-1	Elemental Lead	5.3 Maximum

*PROP 65 (CARCINOGEN):*

**WARNING:** THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

CAS#	CHEMICAL NAME	PERCENT BY WEIGHT
7440-47-3	Elemental Chromium	1.2 Maximum
7440-92-1	Elemental Lead	5.3 Maximum

*PROP 65 (TERATOGEN):*

**WARNING:** THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

<b>CAS#</b>	<b>CHEMICAL NAME</b>	<b>PERCENT BY WEIGHT</b>
7440-47-3	Elemental Chromium	1.2 Maximum
7440-92-1	Elemental Lead	5.3 Maximum

*PROP 65 (BOTH CARCINOGEN AND TERATOGEN):*

**WARNING:** THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

<b>CAS#</b>	<b>CHEMICAL NAME</b>	<b>PERCENT BY WEIGHT</b>
7440-47-3	Elemental Chromium	1.2 Maximum
7440-92-1	Elemental Lead	5.3 Maximum

This statement and exact wording is included as required by the State of California. The conclusion that all chromium (IV) and lead compounds have the same toxicological properties is not supported by current toxicological data for lead chromate pigments.

## **SECTION XI**

### **MISCELLANEOUS INFORMATION**

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.