



# SAFETY DATA SHEET (SDS)

(MSDS)

TLM-510(D)  
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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TLM-510(D) PREPREG  
**PRODUCT USE:** Substrate for printed circuitry  
**MANUFACTURER:** THAI LAMINATE MANUFACTURER CO.,LTD.  
70 Soi Chalongkrung31, Lat Krabang Industrial Estate  
Chalongkrung Rd, Kwang Lumplateaw, Lat Krangbang  
Bangkok 10520, THAILAND

**PHONE:** (66) 2-326-0693  
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**EMERGENCY CALL:** (66) 2-739-4434

## SECTION 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

A nonflammable, sheet material. Dust, when machined or punched may cause skin or eye irritation. Fumes, if decomposed may irritate eyes, nose, and throat.

**HAZARD CLASSIFICATION:** Not a hazardous substance, this product does not meet the physical, health or environment classification criteria of the Globally Harmonized System.

**HAZARD PICTOGRAM:** None

**SIGNAL WORDS:** None

**HAZARD STATEMENT:** None

**PRECAUTIONARY STATEMENT:** None

**OTHER HAZARDS:** None

### POTENTIAL HEALTH HAZARDS:

**SKIN:** Dust may cause moderate skin irritation

**EYES:** Dust may cause moderate eye irritation. Fumes may irritate eyes.

**INHALATION:** Fibrous glass dust may be released from the fiberglass cloth substrate when machined.

**INGESTION:** Not determined

**DELETED EFFECTS:** Our product is reinforced with continuous filament fiberglass. Dust generated from the cutting, grinding, machining, etc., would not be expected to produce respirable particles. IARC considers continuous filaments as unclassifiable or probably non-carcinogenic.

## SECTION 3: COMPOSITION/INFORMATION ON IDENTIFICATION

INGREDIENT NAME	CAS#	%
Fiber Glass	65997-17-3	25-65
Modified Epoxy Resin	26265-08-7	30-70
Inorganic Filler	21645-51-2	5-30

## SECTION 4: FIRST AID MEASURES

### SEEK IMMEDIATE MEDICAL ATTENTION IF IRRITATION OCCURS

**INHALATION:** Remove the person to fresh air.

**EYE:** Flush with running water for 15 minutes. If irritation persists, consult a physician.

**SKIN:** Remove contaminated coating. Wash skin thoroughly with soap and tepid water.

**INGESTION:** If large amounts are ingested, consult physician.

## SECTION 5: FIRE FIGHTING MEASURES

### GENERAL INFORMATION:

Product is inflammable, but self extinguishing (UL94 V-0). Extinguishing activities should be done according to general fire fighting activities; avoid contact with evaporating gases from the product;



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**FLAMMABLE PROPERTIES:** N/A

**FLASH POINT:** N/A

**FLASH POINT METHOD:** N/A

**AUTOIGNITION TEMPERATURE:** Not determined

**UPPER FLAME LIMIT (Volume % in air):** N/A

**LOWER FLAME LIMIT (Volume % in air):** N/A

**FLAME PROPAGATION RATE (Solids):** UL V-0

**OSHA FLAMMABILITY CLASS:** N/A

**EXTINGUISHING MEDIA:** Water, CO<sub>2</sub> and dry chemical

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** May give off toxic hydrogen bromide when thermally decomposed.

**SPECIAL FIREFIGHTING PRECAUTIONS/INSTRUCTIONS:** Fireman should wear proper protective equipment and positive pressure self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**INCASE OF SPILL OR OTHER RELEASE:** (Always wear recommended personal protection equipment)

Not Applicable

## SECTION 7: HANDLING AND STORAGE

**HANDLING:** (Always wear recommended personal protection equipment)

The primary exposure route is inhalation of dust when machine/punched or from fumes or vapors when heated.

**STORAGE:**

Cool dry storage condition.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROL:** Use local exhaust to control dust.

**PERSONAL PROTECTIVE EQUIPMENT:**

- RESPIRATORY PROTECTION: Dust generated during cutting, trimming and drilling should be use local exhust during these processes, and operator should wear gauze mask to prevent inhalation. May require the use of a NIOSH approved respirator.
- SKIN PROTECTION: Wear gloves during prolonged contact to avoid skin irritation from dust.
- EYE PROTECTION: Use safety glasses or a face shield when machining, grinding or cutting this material.
- WORK/HYGIENE PRATICES: Good personal hygiene should be exercised be all users of this product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPERANCE: Yellow to amber sheet

PHYSICALSTATE: Solid

ODOR: None

SPECIFIC GRAVITY: >1.50

SOLUBILITY IN WATER: Negligible in water

BOILING POINT: N/A

MELTING POINT: 120-260 ° F

VAPOR PRESSURE (mm. Hg and Temperature): N/A

VAPOR DENSITY (Air = 1.0): N/A

EVAPORATION RATE: N/A

## SECTION 10: STABILITY AND REACTIVITY

**NORMALLY STABLE:** Stable

**INCOMPATIBILITIES:** Strong acids, strong bases and some metallic salts.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrocarbon of variable composition, hydrogen bromide, bromine, CO<sub>x</sub>, NO<sub>x</sub>

**HAZARDOUS POLYMERIZATION:** Will not occur



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## SECTION 11: TOXICOLOGICAL INFORMATION

Nontoxic , dust produced during mechanical handling may cause irritation of eye , skin and respiratory tract .

## SECTION 12: ECOLOGICAL INFORMATION

**POSSIBLE ENVIRONMENTAL EFFECT/ENVIRONMENTAL FLOW:** N/A

## SECTION 13: DISPOSAL CONSIDERATIONS

**GENERAL:** Follow all applicable local, government regulations. Copper should be recycled.

## SECTION 14: TRANSPORT INFORMATION

**International Transportation Regulation:** N/A

## SECTION 15: REGULATION INFORMATION

**EPA TOXIC SUBSTANCES CONTROL ACT (TSCA):** All of the components of this product are listed on the TSCA inventory.

## SECTION 16: OTHER INFORMATION

**CURRENT ISSUE DATE:** Feb 19, 2020

**PREVIOUS ISSUE DATE:** N/A