

Nan Ya Plastics Corporation

Copper Clad Laminate Department

Material Safety Data Sheet

SECTION ONE

| | |
|---|------------------------------------|
| Manufacturer's Name: Nan Ya Plastics Corporation | Emergency Telephone No. |
| Copper Clad Laminate Department | 011-886-2-6806311 ext.704 |
| Address(Number,Street,City,State and ZIP Code) : #55,Wei-Wang St.,Shu-Lin Villa, Taipei County, Taiwan 238 | Information Telephone No. |
| | 011-886-2-6806311 ext.704 |
| Chemical Name and Synonyms: | Trade Name and Synonyms: |
| B-STAGE Prepreg | NPG-TL, (NEMA :FR-4) |
| Chemical Family: Epoxy resin | Date Prepared : JUL 04,2001 |
| | Date Revised : DEC 26,2006 |

SECTION TWO

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components
(Specific Chemical Identity; Common Name(s) OSHA ACGIH TLV)

This product is composed of cured epoxy resin reinforced with glass cloth.
The prepreg contains approximately 50 ppm by weight of volatile organic material.
The volatile material is mostly with smaller fractions of acetone.
Hazardous Mixtures of Other Liquids, Solids or Gases (%) TLV Unit N. A.

SECTION THREE – PHYSICAL DATA

| | | | |
|-------------------------------|------------------|---|--------------------|
| Boiling Point (F) | N. A. | Spec. Gravity(H₂O=1)(typical) | 1.80 – 1.90 |
| Vapor Pressure(mm Hg.) | N. A. | % Volatile by Weight Maximum | 0.05 |
| Vapor Density (Air=1) | N. A. | Evaporation Rate (=1) | N. A. |
| Solubility in Water | Insoluble | | |

Appearance and Odor: Dense board, of varying thicknesses, available in natural color. It may be clad with copper foil. No odor.

SECTION FOUR – FIRE AND EXPLOSION HAZARD DATA

| | |
|---|---|
| Flash Point (Method Used) | : N. A. |
| Flammable Limits | : Lel/Uel : N. A. |
| Extinguishing Media | : Water, preferably spray or foam |
| Special Fire Fighting Procedures | : Firefighters wear self-contained positive Pressure breathing apparatus and full Protective clothing. |
| Unusual Fire Explosion Hazards | : Formaldehyde, carbon monoxide, smoke and soot can be released while burning. |

SECTION FIVE - HEALTH HAZARD DATA

Threshold Limit Value : None established

Effects of Overexposure : N. A.

Emergency and First Aid Procedures : N. A.

SECTION SIX - REACTIVITY DATA

Stability : Stable

Conditions to Avoid : Attacked slowly oxidizing agents:
will decompose as a function of
time over 125°C

Incompatibility (Materials to avoid) : Reduces strong oxidizing agents

Hazardous Decomposition Products : None at temperatures below 125°C

Hazardous Polymerization : Will not occur

Conditions to Avoid : N. A.

SECTION SEVEN - SPILL OR LEAK PROCEDURES

**Steps to be Taken in Case Material is
Released or Spilled** : N. A.

Waste Disposal Method : Incineration or secure landfill

SECTION EIGHT – SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify type): NIOSH/MSHA approved dust mask or good local exhaust are needed if fine particles are generated as by drilling, sanding, sawing.

Ventilation

Local Exhaust : As required during machining **Special** : N. A.

Mechanical (General) : A required for comfort **Other** : N. A.

Protective Gloves : Not essential but may be desirable to protect from skin abrasion.

Eye Protection : Safety glasses/Shields to protect from flying chips when machining.

SECTION NINE – SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing : None

Other Precautions : None

Issued by :



JACK LIN

Technical Manager