



MATERIAL SAFETY DATA SHEET

ITEQ(WUXI) Electronics

35 ChunHui East Road,Xishan Economic Development Zone,Wuxi City,Jiangsu Province,China. www.iteq.com.tw or marchel_chen@wxiteq.com

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: IT-588 TC

OTHER / GENERIC NAME: Epoxy / glass composite , copper clad laminate, Printed circuit boards, base material.

CHEMICAL FAMILY: Epoxy resin, glass fabric

MANUFACTURER: ITEQ(WUXI) Electronics
35 ChunHui East Road,Xishan Economic Development Zone,
Wuxi City,Jiangsu Province,China.

CONTACT INFORMATION : For more information: Emergency / CHEMTREC
0510-8223-5888

2.COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS# %	w/w
Continuous filament fiber glass	65997-17-3	40~70%
Copper foil	7440-50-8	Varies
Cured Multiglycidyl Ether of TBBP-A EPOXY RESIN	026265-08-7	40~70%

For local "Right to Know" compliance and other reasons, trace ingredients not listed above may appear in Section 15, Regulatory Information.

3.HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Non-flammable sheet material
Dust caused by machining may irritate eyes, nose, or throat.

POTENTIAL HEALTH HAZARDS:

SKIN: Dust may cause minor irritation.
 EYES: Dust may cause minor irritation. Fumes may cause irritation
 INHALATION: Dust may cause respiratory irritation
 INGESTION: None known, none anticipated with normal handling.
 DELAYED EFFECTS: IARC has categorized continuous filament fiber glass as not Classifiable or probably non-carcinogenic (Group 3).

Ingredients found on any of OSHA's carcinogen lists are listed below.

INGREDIENT NAME:	NTP STATUS:	IARC STATUS:	OSHA LIST
None	N/A	N/A	N/A

4.FIRST AID MEASURES

SKIN: Wash promptly with soap and running water. Do not rub or scratch. If irritation persists, consult physician.

Remove contaminated clothing and wash thoroughly before reuse

EYES: Flush immediately with plenty of low-pressure water for at least 20 Minutes.Do not rub or scratch. If irritation persists, consult physician.

INHALATION: Move to fresh air.
Consult physician.

INGESTION: If large amounts are ingested, consult physician.

ADVICE TO PHYSICIAN:Treat symptomatically

5.FIRE-FIGHTING MEASURES



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FLASH POINT: N/A
 FLASH POINT METHOD: N /A
 AUTOIGNITION TEMP: Not determined.
 UPPER FLAME LIMIT: N/A
 LOWER FLAME LIMIT: N/A
 FLAME PROPAGATION RATE: UL 94 V-0
 OSHA FLAMMABILITY CLASS: N/A
 EXTINGUISHING MEDIA: Water, CO₂, foam, dry chemical, Halon.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: May give off toxic hydrogen bromide fumes when thermally Decomposed.
 SPECIAL FIRE-FIGHTING PROCEDURES: Wear proper protective equipment and self-contained breathing Apparatus.

6.ACCIDENTAL RELEASE MEASURES

RESPONSE TO RELEASE: If material is not contaminated, return to container for use.
 If material is contaminated, pick up and place in container for disposal.
 Material is an article. Spill or release to the environment is unlikely.

7.HANDLING AND STORAGE

NORMAL HANDLING: Always wear recommended personal protective equipment.
 STORAGE: Store in a cool dry place.

8.ENGINEERING CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
 VENTILATION: Adequate ventilation should be provided to keep dust concentrations within acceptable exposure limits.
 Discharge from the ventilation system should comply with applicable air pollution control regulation
 GENERAL: Eyewash fountains and safety showers should be easily accessible.
 PERSONAL PROTECTIVE EQUIPMENT:
 SKIN PROTECTION: Impervious gloves and clothing should be worn for prolonged or Repeated contact.
 EYE PROTECTION: Safety glasses
 RESPIRATORY PROTECTION: Atmospheric levels of fibrous glass, copper, and other dusts should be maintained below recommended exposure guidelines.
 If airborne contaminant is likely to exceed acceptable limits, use a NIOSH-approved respirator.

ADDITIONAL: N/A
 RECOMMENDATIONS: N/A

EXPOSURE GUIDELINES:

INGREDIENT NAME:	CAS#	ACGIH TLV	OSHA PEL	OTHER LIMITS
Fiber glass dust	65997-17-3	10 mg / m ₃	None	N/A
Copper dust	7440-5-08	1 mg / m ₃	1 mg / m ₃	N/A

9.PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE: Amber, gold, or yellow sheets which may have copper cladding on one or both sides.
 PHYSICAL STATE: Solid.
 ODOR: None unless heated.
 BOILING POINT: N/A
 MELTING POINT: N/A
 MOLECULAR WEIGHT: N/A
 CHEMICAL FORMULA: N/A



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PH: N/A
SOLUBILITY IN WATER: Insoluble
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
SPECIFIC GRAVITY: 1.6-1.9
EVAPORATION RATE: N/A

10. STABILITY AND REACTIVITY

NORMALLY STABLE: YES.
INCOMPATIBILITIES: Not determined
HAZARDOUS: CO, CO₂, HBr, aromatic or aliphatic hydrocarbons.
DECOMPOSITION PRODUCTS: Laser processing may result in copper fumes.
HAZARDOUS POLYMERIZATION: None

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS: Dust may cause eye, skin, and respiratory irritation.
DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:
NTP and IARC consider respirable glass wool a possible human Carcinogen.
IARC consider continuous glass filaments unclassifiable or Non-carcinogenic (Group 3).
OTHER DATA: Not determined.

12. ECOLOGICAL INFORMATION

Not biodegradable.

13. DISPOSAL CONSIDERATIONS

RCRA HAZARDOUS WASTE: No.
WASTE DISPOSAL METHOD: Landfill.
Do not incinerate.
Recycle copper.
Disposal must comply with all local, regional, and national regulations.

Information supplied here is for the material as shipped. Use or alteration of the product such as mixing with other materials such as lead solder during the printed circuit boards fabrications process may change the RCRA classification of the mixture and require alternative disposal procedures.

14. TRANSPORTATION INFORMATION

US DOT HAZARD CLASS : Not regulated.
US DOT ID NUMBER: N/A

15. REGULATORY INFORMATION

TSCA INVENTORY STATUS : Resin system components used in this product are on the TSCA Inventory list.
OTHER TSCA ISSUES: None.

16. OTHER INFORMATION

REFERENCE DOCUMENTS: 1. CHEMINFO database , CCINFO CD-ROM , 99-2
2. RTECS database , TOMES PLUS CD-ROM , VOL.41,1999



聯茂(無錫)電子科技有限公司

ITEQ (WUXI) ELECTRONICS

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3. HSDB database , TOMES PLUS CD-ROM , VOL.41,1999

TABULATION COMPANY: ITEQ(WUXI) Electronics

35 ChunHui East Road,Xishan Economic Development Zone,
Wuxi City,Jiangsu Province,China.

TABULATIONER:

Position: director of department

Full name: Marchel Chen

TABULATION DATE:

2008/01