

**MATERIAL SAFETY DATA SHEET**

Dongfang Road , Nanfang Industrial Park, BEICE HUMEN Village , Town, DONGGUAN City, GUANGDONG Province, CHINA  
http://[www.iteq.com.cn](http://www.iteq.com.cn) or wenhung@iteq.com.cn

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: IT-158TC/IT-158BS

OTHER / GENERIC NAME: Epoxy / glass composition, Copper Clad Laminate/Prepreg, Printed circuit board base material.

CHEMICAL FAMILY: Epoxy resin, glass fabric.

MANUFACTURER: ITEQ Corporation

Dongfang Road 168 , Nanfang Industrial Park, BEICE HUMEN Village, Town,  
DONGGUAN City, GUANGDONG Province, CHINA.

CONTACT INFORMATION : For more information: Emergency / CHEMTREC

Tel: 0769-88623268

Fax: 0769-85700426

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

INGREDIENT NAME:	CAS#	% w/w
Glass cloth	65997-17-3	40~70%
Copper foil	7440-50-8	Variational
Cured diglycidyl ether of TBBPA Epoxy Resin	026265-08-7	20~40%
Cured BPA Novolac Epoxy Resin	25068-38-6	20~40%

This product does not contain reportable hazardous ingredients as defined by Rohs instruction and other hazardous substances, such as PCN, PCT, PCB, CP, Mirex, other organic chloride and bromide, organic tin compound, asbestos, azo compound, formaldehyde, TBBA(TBBPA), dioxins, Ozone Depleting Substances, antimony and other heavy metal or metal compound, and so on.

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.

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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**

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, CO<sub>2</sub>, foam, dry chemical  
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

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RECOMMENDATIONS: N/A

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**EXPOSURE GUIDELINES:**

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

**9. PHYSICAL AND CHEMICAL CHARACTERISTICS**

APPEARANCE:	Amber, gold, or yellow sheets or yellow rolls.
PHYSICAL STATE:	Solid.
ODOR:	None unless heated.
BOILING POINT:	N/A
MELTING POINT:	N/A
MOLECULAR WEIGHT:	N/A
CHEMICAL FORMULA:	N/A
PH:	N/A
SOLUBILITY IN WATER:	Insoluble
VAPOR PRESSURE:	N/A
VAPOR DENSITY:	N/A
SPECIFIC GRAVITY:	>1.3
EVAPORATION RATE:	N/A
% VOLATILES:	<0.1%

**10. STABILITY AND REACTIVITY**

NORMALLY STABLE: YES.

INCOMPATIBILITIES: Not determined

HAZARDOUS: CO, CO<sub>2</sub>, HBr, aromatic or aliphatic hydrocarbons.

DECOMPOSITION PRODUCTS: CO<sub>2</sub>, H<sub>2</sub>O, HBr.

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**

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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.