



广东东溢新材料科技有限公司

GUANGDONG DONGYI HIGH-TECH MATERIAL SCIENCE&TECHNOLOGY CO., LTD.

Tel: 0760-88892754

Fax: 0760-88892744

## 物质安全手册 MSDS

### MATERIAL SAFETY DATA SHEET LIST

无卤聚酰亚胺覆铜板

**Halogen-free FCCL Based PI Film**

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## 1 产品与公司信息

### 1 Chemical Product and Company Information

品名：无卤聚酰亚胺覆铜板

Product Name: Halogen-free FCCL Based PI Film

型号代码：DSIF、DDIF、DSBF、DDBF

Type NO：DSIF, DDIF, DSBF, DDBF

厂商：广东东溢新材料科技有限公司

Manufacturer: GUANGDONG DONGYI HIGH-TECH MATERIAL SCIENCE&TECHNOLOGY CO., LTD.

地址：广东省中山市南区昌盛路 22 号/板芙镇智创路1号

Factory Address: NO.22 Changsheng Road, South District, Zhongshan City, Guangdong, China/ No. 1 ZhiChuang Road, Banfu Town

24 小时紧急电话：0086-0760-88892754

Emergency Telephone (24 hr): 0086-0760-88892754

一般安规信息：0086-0760-88892754

General Safety Information: 0086-0760-88892754

## 2 物理及化学性质

### 2 Physical & Chemical Properties

物质状态：固态

Physical State: Solid

气味和颜色：铜色

Odor And Appearance: Coppery

分解温度：N/A

Melting Point: Not Available

闪火点 N/A

Flash Point Not Available

密度大约 3.7 溶解度：

几乎不溶于水

Water Solubility: Insoluble

PH 值：N/A

PH: Not Available

蒸汽压：N/A

Vapor Pressure (mmHg): Not Available

蒸汽密度：N/A

Vapor density: Not Available

爆炸界限：N/A

Explosion limit: Not Available

自燃温度：N/A

Autoignition temperature: Not Available



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## 1 化学成分

## 2 Chemical composition

名称：无卤聚酰亚胺覆铜板

Name: Halogen-free FCCL Based PI Film

### 1、环氧树脂胶黏剂 (5~8%)

Acrylic adhesive (5~8%) :

序号 Number	成分 Composition	重量百分比 (%) Quality percentage (%)	CAS号 CAS NO.
1	环氧树脂 Epoxy resin	63~38	25036-25-3
2	氢氧化铝 Aluminum Hydroxide	22~10	21645-51-2
3	二乙基次膦酸铝 Aluminum diethylphosphinate	10~5	225789-38-8
3	丁腈橡胶 Chemigum	30~22	9003-18-3
4	促进剂 Promoting Agents	2~1	461-58-5

### 2、聚酰亚胺膜 (10~20%)

Polyimide film

CAS 号 31975-60-7

CAS NO.31975-60-7

### 3、铜箔 (75-90%) CAS 号 7440-50-8

Copper foil

CAS NO.7440-50-8

### 4、本产品符合 ROHS 所规定的禁用物质及卤素要求。

The product comply with RoHS and halogen free regulations



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## 4 稳定性及反应性

稳定性：温度低于 30°C 的低温，湿度 70% 以下密封储存，储存期为 12 个月。

Stability: stable below 30°C and relative humidity lower than 70% conditions of storage 12 months.

反应性：温度低于 30°C，湿度 70% 以下的冷库条件下密封储存，无明显反应。

Reactivity: No obvious reaction in refrigeration storage below 10°C and relative humidity lower than 70% conditions.

应避免之条件：材料温度高于 125°C 将会产生分解；

Conditions To Avoid: Material will decompose when temperature is higher than 125°C.

应避免之物质：避免与氧化剂、强酸、强碱性化学性物质及有机试剂接触；注意防尘。

Materials To Avoid: oxidizing agent, strong acid, alkali matter, organic reagent, dust elimination

有害分解物：在一般生产条件下未有有害分解物产生。

Hazardous Decomposition: None at normal processing temperatures.

## 5 有害物质信息

### 5 Hazards Properties

急毒性： N/A

Acute Product Toxicity Data: Not Available

眼睛危害： N/A

Eye Irritation: Not Available

局部过敏： N/A

Skin Irritation: Not Available

皮肤危害量： N/A

Dermal: Not Available

吸入危害量： N/A

Ingestion: Not Available

食入危害量： N/A

Inhalation: Not Available



## 6 注意事项

### 6Warning

概要：

Overview:

本产品由于不会产生挥发性物质,且无污染,故不会造成人身和环境影响。一般使用、接触时无须特别注意。

The product wouldn't result in a personal and environmental impact,due to no pollution and production of volatile substances, Generally do not need to pay special attention to when using, contact.

眼睛：无气味刺激眼睛，注意胶膜颗粒浸入眼睛。

Eyes:Dust from trimming, drilling and milling operations may cause irritation or injury due to mechanical action.

皮肤：皮肤接触不会产生任何刺激和不适。

Skin: Powder from trimming, drilling and milling operations may cause skin irritation.

食入：本产品一般无食入的可能和危险。

Ingesting: Not acutely toxic.

吸入：本产品一般无吸入的可能和危险。

Ingesting: Dust may be irritating to the respiratory tract.

致癌物质：

Chronic/Carcinogenic:

NTP: Not Tested

OSHA: Not Regulated

IARC: Not Listed

医学制约：此产品无已知的健康影响。

Medical Restrictions: There are no known human health effects aggravated to this product.

## 7 急救措施

### 7.First Aid Measures

眼睛：立即使用大量清水冲洗至少 15 分钟，如果症状持续，立刻寻求医疗帮助。

Eyes: Immediately flush with large amounts of water for at least 15 minutes. If symptoms persist, seek medical help immediately

皮肤：用肥皂和凉水清洗净皮肤上的残留。

Skin: Wash with soap and cold water to prevent dust from entering skin pores.

食入：本产品一般无食入的可能和危险。

Ingestion: Not probable

吸入：如果吸入粉尘呼吸困难，请寻求医疗帮助

Inhalation: Dust - if breathing becomes impaired, seek medical attention.



## 8 灭火措施

### 8 Fire Fighting Measures

消防：应具备完善的防护面具和防护服装。

Firefighting: Should have perfect protective mask and protective clothing.

灭火的媒介：喷水和泡沫,水是最佳的灭火媒介。不建议使用二氧化碳和干粉灭火，因其缺乏冷却能力而可能使得重燃。

Extinguishing Media: Water spray ,foam.And water are the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition.

有害燃烧物：一氧化碳、浓烟和微尘。

Hazardous Combustion Products: Hydrogen bromide. Formaldehyde, carbon monoxide, dense smoke and soot can be released while burning.

闪火点： N/A

Flash Point: Not Established

最低燃烧极限： N/A

Lower Flammable Limit: Not Established.

最大燃烧极限： N/A

Upper Flammable Limit: Not Established.

燃烧条件：持续的火源。

Conditions Of Flammability: Requires continuous flame source to ignite.

静电：静电对产品未有较大影响。但静电对生产操作过程中所产生的微尘较为敏感。

Static Discharge: The product isn't sensitive to static discharge. Dust generated during trimming, drilling and milling operations may be sensitive to static discharge.

## 9 净化说明

### 9 Cleaning Instruction

常规：注意！请勿在生产过程中产生大量的微尘，否则采用相关回收设备避免该情况的产生。

General: Warning! During trimming, drilling and milling operations do not create dust cloud. Use collection methods such as vacuum and place into proper container for disposal or recovery.

## 10 处理办法

### 10 Handling Instruction

处理：采用完善的工业清洁设施，在生产操作过程中尽量减小微尘的吸入量，并充分透气。

Handling: Use good industrial hygiene practices. During trimming, drilling and milling operations minimize inhalation of dusts and contact with skin and eyes. Provide adequate ventilation.

储存：30°C以下并相对湿度 70% RH 的条件下储存，避开潮湿、热源。

Stage: Store away from moisture and heat sources,besides, control temperature below 30°Cand relative humidity less than 70% RH



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## 11 生产安全事项

### 11 Operational Safety Instruction

建议工作场所保持连续供应新鲜空气, 采用完善的除尘设备以及相关的防护措施避免与微尘的接触。加工 粉尘可能是火灾隐患;需定期从排气的容器,管道系统和其他表面清除灰尘。

A continuous supply of fresh air to the milling operations workplace together with removal of process dust through exhaust systems is recommended. Processing dust may be a fire hazard; remove periodically from exhaust hoods, ductwork and other surfaces using appropriate personal protection.

个人防护:

Personal Protection:

眼睛/脸部: 配戴防护眼镜和防护面具。

Eye/Face: Wear safety glasses with side shields or chemical goggles during trimming, drilling and milling operations.

呼吸: 裁切时,钻孔和铣削粉尘没有充分控制的, 使用呼吸防护用具。

Respiratory: When trimming, drilling and milling dusts are not adequately controlled, use respirator approved for protection from dust

生产操作: 可在普通室内环境条件下操作。

Production operation: production under the condition of common indoor environment is available.

## 12 环境影响

### 12 Environmental Effect

常规: 无相关重大的环境影响。

General: Not expected to present any significant ecological problems.

## 13 废弃物处理方法

### 13 Disposal of Discad

有毒废物: N/A

Hazardous waste: Product is not a Hazardous Waste.

废物处理: 废弃物处理请符合当地的法律法规。

Waste Disposal: Waste disposal shall comply with local laws and regulations .



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## 14 运输信息

### 14 Transformation Information

危险级别：本产品非危险化学品，可按一般化学品运输。

Dot Hazard Class: Not Regulated

运输名： N/A

Proper Shipping Name: Not Regulated

标示号： N/A

Indicate No: Not Regulated

## 15 法规

### 15 Regulation

根据供应商通知，该产品不含有可报告的物质数值

This product does not contain reportable quantities of substances subject to supplier notification.

危险品法令(TSCA)：遵守 USEPA 有毒物质控制法案的化学物质存放要求。

TSCA STATUS: This product complies with the Chemical Substance Inventory requirements of the USEPA Toxic Substances Control Act.

车间危险品管理系统(WHMIS)：非受控产品。

WHMIS Classification: Not a controlled product.

## 16 其它数据

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制作单位：研发部

Prepared By: R&D Departmen

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User Responsibility: Each user should read and understand this information and applicable Hazard Communication Standards and Regulations.