



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 2020/07/18
Date

编号 20071803
File No

版本 1.0
Revision

客 户 成都万创

CUSTOMER: _____

客户料号 TAB07-RK68-QLS-GEN3

CUSTOMER NO: _____

品 名 WiFi Antenna

PART NAME: _____

供方料号 YJS01.042.008.301A

SUPPLIER NO: _____

送样日期Date: 送样数量Q “TY:

客户确认CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	WenXue	ChenXingcheng

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086



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11	N/A	N/A	N/A
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RoHS
Compatible

CUSTOMER
PART NO

REV.

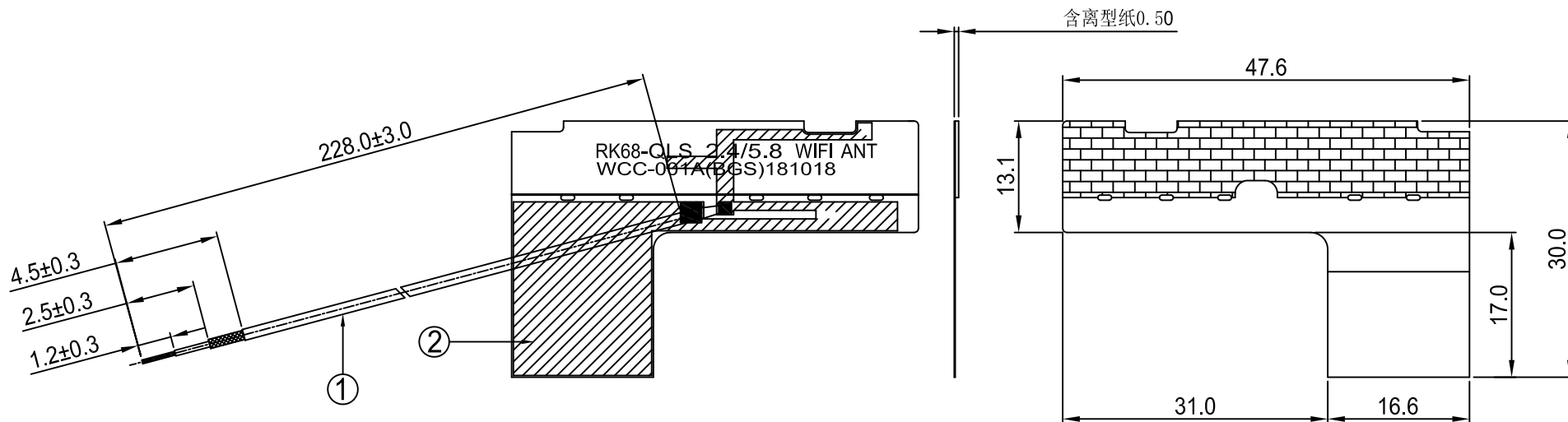
DESCRIPTION

DATE



首次发行

2020-07-02



东莞市一佳电子通讯科技有限公司

Dongguan Yijia Electronics Communication Technology Co., Ltd. Tel: 0769-85535057 Fax: 0769-81664308

PART NAME: WiFi Antenna

PART NO.: YJS01.042.008.301A

DATE: 2020-07-02

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

陈国强

文雪

陈兴易

UNITS: mm

SCALE: 1/1

REVISION: A

X.X ±0.50

X.XX±0.15

X° ±3°

2	FPCB	47.6*30.0MM	FPCB	FPC1000XA.P01	1
1	Coaxial Cable	O.D.0.81 Black	O.D.0.81	COA1000XA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



天线规格

Antenna Specification

Electrical Properties

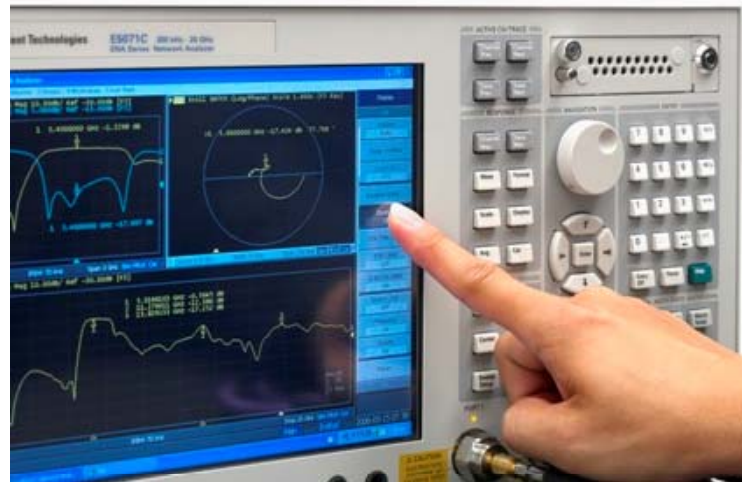
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max@2.4-2.5GHz 2.5 Max@5.15-5.85GHz
Gain	2.4dBi@2.4-2.5GHz 3.1dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

Physical Properties

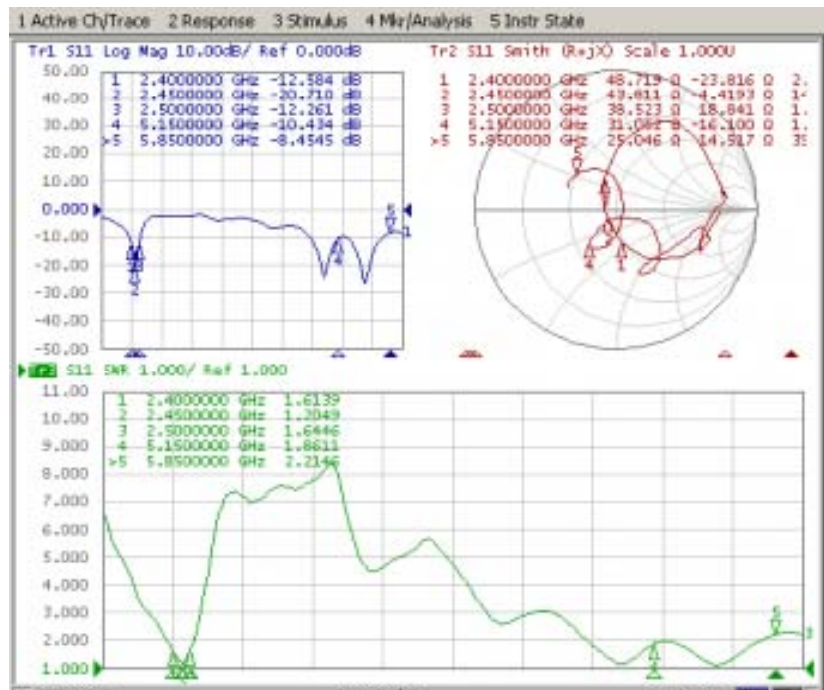
Connector	None
Cable Type	O.D.0.81mm
Cable Length	228mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp.	-40~ +85 °C



Agilent E5071B



S Parameter Test // WIFI





Passive Test For WiFi (PIFA) (2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	50.8	-2.9	1.9
2410	52.3	-2.8	2.1
2420	52.4	-2.8	2.2
2430	54.6	-2.6	2.3
2440	55.2	-2.6	2.3
2450	55.4	-2.6	2.4
2460	55.3	-2.6	2.4
2470	53.2	-2.7	2.2
2480	52.7	-2.8	2.2
2490	51.7	-2.9	2.1
2500	51.4	-2.9	2.0



Passive Test For WiFi (PIFA) (5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	48.6	-3.1	2.2
5200	50.4	-3.0	2.2
5250	50.7	-2.9	3.1
5300	51.6	-2.9	2.7
5350	53.1	-2.8	3.1
5400	51.6	-2.9	3.0
5450	51.5	-2.9	2.6
5500	47.9	-3.2	2.2
5550	47.6	-3.2	2.1
5600	47.5	-3.2	1.7
5650	44.2	-3.5	1.6
5700	58.1	-2.4	3.1
5750	57.9	-2.4	2.6
5800	55.6	-2.6	2.4
5850	54.6	-2.6	1.7



OTA Test For WIFI (PIFA)					
Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	6.2	11Mbps	-74.3
	7		6.3		-75.2
	13		6.5		-74.6
WIFI 5.8G 802.11a	36	6Mbps	6.8	54Mbps	-68.0
	149		6.2		-68.5
	165		6.4		-68.3

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086



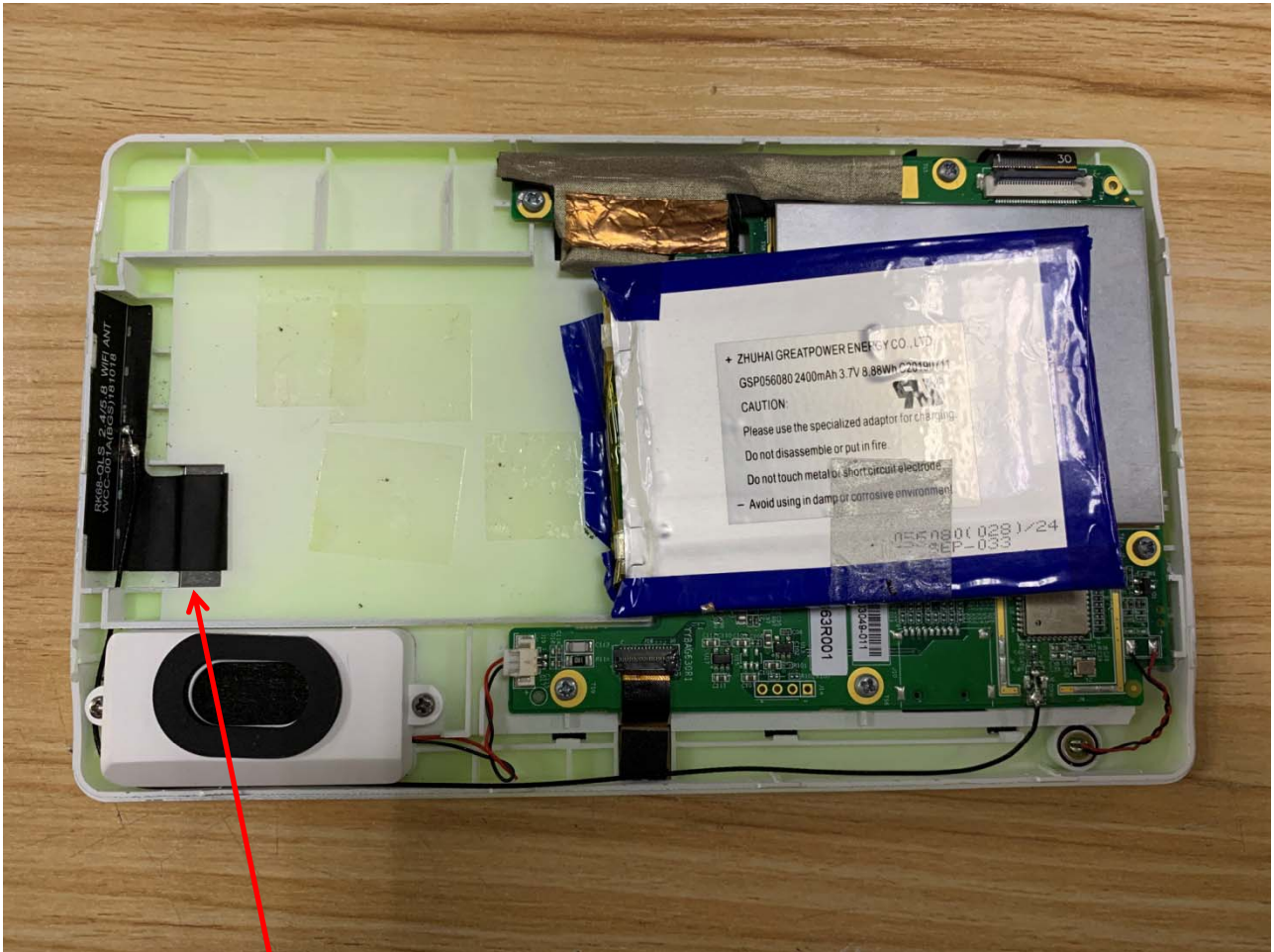
Device





Antenna WIFI





WIFI Ant

Material Safety Data Sheet

ITEM : PSM-800@ /SMH-800

Identity (Trade Name As Used On Label)

SECTION 1 IDENTIFICATION

Manufacturer

UNIRES CHEMICAL INDUSTRIAL CO.,LTD.

Address

22CHING CHIAN 4thRD.KUANYIN INDUSTRIAL

DISTRICT TAOYUAN HSIEN TAIWAN

Phone Number (For Information)

886-3-4836651 (fax)886-3-4837487

Emergency Phone Number

Telex * **886-3-4836651**

MSDS Number* **20110701AAA**

CAS Number*

07/01/2011

Data Prepared

HUANG CHIN HUAI

Prepared By*

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No.	CONTENTS(%)	OSHA (PEL)	ACGIH (TLV)
Heavy aromtic naphtha(petroleum)	64742-94-5	<12%	N.D.	N.D.
Epoxy-Acrylic derivative	Trade secret	<48%	N.D.	N.D.
Barium sulfate	7727-43-7	<20%	dust 15mg/m3	10mg/m3
Silica, amorphous, fused	7631-86-9	<8%	N.D.	dustTLV10mg/m3
Dipropylene glycol methyl ether	34590-94-8	<12%	100ppm	200ppm

SECTION 3 HAZARDS IDENTIFICATION

INHALATION : Highly concentrated vapor irritates nose, throat ant and lungs. May cause headache and dizziness.

EYE CONTACT : Slight irritation

SKIN CONTACT : Slight irritation

INGESTION : Harmful, if swallowed.

SECTION 4 FIRST AID MEASURES

SKIN CONTACT : Wash with plenty of water using a soap. Do not use organic solvents.

EYE CONTACT : Rinse immediately with clean water for at least 15 minutes. If irritation persists, seek medical attention

INHALATION : Immediately carry the victim to a place where fresh air is available. If irritation persists, treat with oxygen and seek medical attention.

INGESTION :obtain medical advice immediately. It is not recommended that vomiting be induced except on medical advice

SECTION 5	FIRE-FIGHTING MEASURES
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SUITABLE EXTINGUISHING MEDIA	: Carbon dioxide, foam, powder.
UNSUITABLE EXTINGUISHING MEDIA	: water spray and water jet.
EXPOSURE HAZARDS	: Burning may release oxides of carbon, nitrogen, sulfur and other toxic gases or vapors. Do not release chemically contaminated water into drains or surface waters, and soil according to local regulations.
PROTECTIVE EQUIPMENT	: Use full protective clothing and self-contained breathing apparatus.
FIR FIREFIGHTERS MEASURES	: promptly move transferable containers to another safety area .Check the speed of fire. Extinguish the fire with suitable extinguisher from the windward side

SECTION 6	ACCTDENTAL RELEASE MEASURES
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PERSONAL PRECAUTION	: Avoid ignition sources. Avoid contact with skin, eyes and clothing. Avoid inhaling vapor.
ENVIRINMENTAL PRECAUTIONS	: Prevent contamination of soil, drains and surface waters
METHODS FOR CLEANING	: Scoop up or absorb into combustible material, wipe out a stain in use organic solvents. Dispose in accordance with local regulations.

SECTION 7	HANDLING AND STORAGE
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HANDLTNG	: Handle with care. Avoid ignition sources. Ensure good ventilation and local exhaust. Do not smoke at the workplace
STORAGE	: Store in the original sealed container at less than 20°C.Avoid direct exposure to UV and sunlights.

SECTION 8	EXPOSURE CONTROLS/PERSINAL PROTECTION
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People who know they are chemically sensitive, should avoid contact with this product.

TECHNICAL PROTECTIVE MEASURES	: No special safety measures required.
EXPOSURE CONTROL LIMITS	: (see PEL and TLV values shown in shown in section 2)
RESPIRATORY PROTECTION	: Wear suitable mask to avoid inhalation of vapor.
HAND PROTECTION	: wear chemical resistant gloves.
EYE PROTECTION	: wear safety glasses.
SKIN PROTECTION	: wear suitable protective working cloths.

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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BOILING	: *156°C(760mmHg)	COLOR	: black
FLASH	: 75.0°C	FORM	: Paste
VAPOR PRESSURE	: * 2.00mmHg(40°C)	VAPOR DENSITY	: *6.08(Air=1)
SOLUBILITY IN WATER	: * <10.7wt%	ODOR	: Mild odor
		SPECIFIC GRAVITY	: 1.18

*Data of the organic solvents or monomers contained in this product is product is quoted.

SECTION 10	STABILITY AND REACTIVITY
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STABILITY : Stable
CONDITIONS TO AVOID : Heat and sunlight.
MATERIALS TO AVOID : Strong acids, strong bases, peroxides and strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS : Burning may release oxides of carbon, nitrogen, sulfur and other toxic gases or vapors.

SECTION 11	TOXICOLGICAL INFORMATION
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PRIMARY ROUTE(S) OF ENTRY
☒ DERMAL ☒ INHALATION ☐ INGESTION

TOXICITY STUDIES : Toxicity studies have not been carried out in this product. Toxicity information available for the ingredients listed in section 2 is given below.

HEALTH HAZARDS
ACUTE INGESTION TOXICITY : N.E.
ACUTE SKIN IRRITATION : Slightly irritant
MUTAGENICITY : NONE

CARCINOGENICITY
☐ NTP ☐ IARC ☐ OSHA ☒ NOT LISTED

SYMPTOMS OF OVER EXPOSURE
INHALATION : Slight irritation to respiratory tract. Highly concentrated vapor may cause headaches, and nausea.
EYES : Slight irritation
SKIN : Slight irritation
INGESTION : Expected to have a low order of toxicity.

SEVTION 12	ECOLOGICAL INFORMATION
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ACUTE FISH TOXICITY : Ecological data are not available
BIODEGRADABILTY : No data available.

SEVTION 13	DISPOSAL CONSIDERATIONS
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Incineration or landfill in accordance with local regulations.

SEVTION 14	TRANSPORT INFORMATION
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ADR : Inflammable liquid
IMDG-CODE : Free
IATA : Free
US DOT : Combustible liquid

UN : Free
FLASH POINT : 75.0°C

SECTION 15	REGULATORY INFORMATION
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EEC LABELING : Harmful

RISK PHRASES : Harmful : may cause lung damage if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES : Avoid contact with skin.
: Do not breathe vapor.
: If swallowed, do not induce vomiting :seek medical advice immediately and show this container or label.
: Avoid release to the environment. Refer to special instructions/Safety data sheets.

SECTION 16	OTHER INFORMATION
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This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

It may not be valid for this material, if used in combination with any other materials.

Material safety data sheet

Article and manufacturer informatio

Item name :KTM-150F WM
Ohter name: NONE
Recommended use: heat hardening printing ink
Name of manufacturer or supplier: supplier - keyway Technology Co., Ltd Manufacturer - kaiyao Technology Co., Ltd
Address of manufacturer or supplier: supplier - No.18, Lane 646, Boai street, Zhubei City, Xinzhu County Factory - No.18, Lane 646, Boai street, Zhubei City, Xinzhu County
Emergency contact: (03) 555-1822 Fax: (03) 553-1338

Hazard identification data

Hazard classification: flammable liquid, fire hazard Category 3, acute toxicity category 5.
Label content: flammable mixed solvent 
Symbols: warning:
Hazard warning message: flammable substances, may be harmful if inhaled.
Hazard prevention measures: tightly cover the container; keep away from the ignition source - no smoking; place the container in a well ventilated place; take off the clothes as soon as they are polluted; wear eye mask / face shield; do not eat or drink when using, and avoid release to the environment
Other hazards:

Component identification data

INGREDIENTS	% by Wt	CAS No.
Polyester resin (polymer)	20~25%	28064-14-4
Mixed solvent	20~25 %	106-65-0 ; 1119-40-0 ; 627-93-0
Titanium dioxide	30~35%	13463-67-7
Filler	10~15 %	14807-96-6
Hexamethylene diisocyanate refers to oligomer	5~10 %	21093-51-6
Butyl acetate	1~5 %	627-93-0

First aid measures

First aid methods of different exposure routes:
Inhalation:1. remove the patient to fresh air immediately. It can only cause nose irritation and may be harmful to people. Skin contact: 1. Immediately wash with water.
Eye contact: 1. Immediately open the eyelids and wash them with mild water.
Ingestion:
Most important symptoms:
Protection for first aid personnel: wear protective gloves to avoid contact with pollutants.
Tips for doctors:.

Fire fighting measures

Suitable extinguishing agent: dry powder

Special hazards that may be encountered during fire fighting:

Special fire fighting procedures: 1. Remove the container from the fire site and put out the fire in the upwind.

2. Stop leakage without endangering personnel safety.

3. If the leakage cannot be stopped and the surrounding area is empty, the fire will burn out.

Special protective equipment for firefighters: Firefighters must wear air breathing apparatus, fire clothing and protective gloves.

Leakage treatment method

Personal precautions: 1. Restrict personnel access until the overflow area is completely clean.

2. It is determined that the trained personnel are responsible for the cleaning work.

3. Wear appropriate personal protective equipment.

Environmental precautions:

1. Ventilate the area.

2. Extinguish or remove all sources of ignition.

3. Report to relevant units of safety, health and environmental protection of the government.

Cleaning method: 1. Do not touch the leakage. 2. Avoid discharging into sewer or other confined space. 3. Try to prevent or reduce the leakage under the condition of safety permission. 4. Use sand, soil or other absorbing substances that do not react with leakage substances to enclose the leakage. 5. In case of a small amount of leakage, absorb it with absorbent that will not react with the leakage. Contaminated absorbents and spills are equally hazardous and should be placed in properly capped and labeled containers. Flush the spill area with water. 6. In case of a large number of spills, contact the fire department, emergency treatment unit and supplier for assistance.

Safe handling and storage methods:

Without special measures, it is not inflammable and explosive.

Storage: no corrosive container, no reactivity, low flammability, non flammable.

Exposure precautions

Engineering control: local exhaust device or integral air exchange device.

Control parameters: eight hour daily average allowable concentration / short time

average allowable concentration / maximum allowable concentration:

Personal protective equipment: respiratory protection:

Hand protection: impervious gloves, butyl rubber recommended, Teflon, 4h, barricale, chemrel

Eye protection: 1. Goggles (minimum 8 inches). 2. splash proof safety goggles. 3. Do not wear contact lenses. Skin and body protection: chemical protective clothing.

Physical and chemical properties

Material state: viscous paste liquid shape: paste liquid

Color: smell: Fragrance

PH value: slightly acidic boiling point / melting point range: OC /---

Decomposition temperature: flash point not measured:

Test method: open cup and close cup

Autoignition temperature: explosion limit: LEL: uel:

Vapor pressure: vapor density: > 1 (air 1)/

Specific gravity: 1.2 ~ 1.4 (25 / 25 °C) for water solubility:

Stability and reactivity

Stability: under normal conditions
Possible hazardous reactions under special conditions:
Conditions to avoid:
Substances to be avoided: acids.
Hazardous decomposition:

Toxicity data

Exposure route: skin contact, eye contact, ingestion
Symptoms: eye damage
Acute toxicity: inhalation:
Skin: causes mild irritation. Eyes: cause mild irritation. Ingestion:
LD50 (test animal, absorption pathway) local effect:---
Sensitization:---
Chronic toxicity or long-term toxicity:
Special effect:.

Ecological data

Ecotoxicity:
Durability and degradability:
Bioaccumulation:
Mobility in soil:
Other adverse effects:

Waste disposal method

Waste disposal method:
1. Handle according to the current laws and regulations.
Consider sanitary burying or burning in a qualified solvent burning tower.

Delivery information

UN No:
UN transport Name:
Transportation hazard classification:
Packing category:
Marine pollutants (yes / no):
Special delivery methods and precautions:-

Other information

References: None
Prepared by: kaiyao Technology Co., Ltd. / No.18, Lane 646, Boai street, Zhubei City, Xinzhu County/ Tel:03-5551822 / Fax:03-5531338
Prepared by: Xie Jinquan
Prepared on: August 15, 2014
Note: the above information and data are for reference only. The user shall determine the feasibility of the application according to the application requirements.

Material safety data sheet

一、Goods and manufacturer information

Item name: Halogen-free polyimide copper foil substrate(Halogen-free PI -CCL)
Item number: SHIS or SHID
Name of the manufacturer or supplier / Address / Telephone/Portraiture: Suzhou Serengeti Electronic Material Co., Ltd. /NO. 168 north Taiping road, Taicang city , Jiangsu Province, China/0512-5337 8333/0512-5337 8355
Emergency contact number/Phototelephony : 0512-5337 8333/0512-5337 8355

二、Component identification data

Pure substance :

Chinese and English names:	1. Halogen-free epoxy resin adhesive 2. Polyimide film 3. 3. Copper foil
Synonymous name:	-
Chemical Abstracts Agency Registration Number(CAS No.):	1. (Halogen-free epoxy resin adhesive) 24969-06-0 25% ~ 41.2% 2. (Polyphenylene amine membrane) 25038-81-7 17.4% ~ 39.6% 3. (Copper foil) 7440-50-8 28.7% ~ 48%
Hazardous substance composition(percentage composition):	< 15(Halogen-free epoxy resin adhesive)

三、Hazard identification data

Most important harm and effect	Health hazard effect: No harm to the human body.
	Environment effects: -
	Physical and chemical harm: -
	Special harm: -
Cardinal symptom: -	
Hazardous classification of articles: -	

四、Emergency treatment

First aid methods for different ways of exposure:
Inhalation: There is no way to inhale the film.
Skin contact: No stimulation.
Eye contact: No volatiles are allowed to touch.
Ingestion: There is no possible way for the film.
Most important symptoms and harmful effects: -
Protection of first aid personnel: -
Tips for doctors: -

五、Fire extinguishing measures

Applicable fire-extinguishing agent: Use a fire extinguishing agent suitable for isolating the fire site.
Special hazards that may be encountered at the time of fire-fighting: Inhalation of high-temperature pyrolysis substances.
Special fire-fighting program: -
Special protective equipment for firefighters: Wear air respirator and

protective gloves and fire-fighting clothes.

六、Emergency strain of leakage

Individual considerations: Use of personal protective equipment.

Environmental consideration: -

Cleaning method: -

七、Safety disposal and storage method

Handle: When operating, isolate from food and beverage.

Lay in: Store in a cool, dry and well-ventilated place.

八、Exposure prevention measures

Engineering control: -

Controlling parameter:

Average allowable concentration of eight hours per day/Short time average allowable concentration/Maximum allowable concentration: -

Biological index: -

Personal protective equipment:

Respiratory protection : A dust-proof mask.

Hand protection : Gloves.

Eye protection: Safety glasses.

Skin and body protection: -。

九、Physical and chemical properties

Material state:	Solid body	Form:	Membrane shape
Pigment:	Light brown ~ Dark brown(PI side)	Smell:	not have
PH value :	N/A	Boiling point/Boiling spread :	N/A
Decomposition temperature :	N/A	Flash point :	N/A test method : Open cup Closed cup
Autogenous ignition temperature :	N/A	Explosion limit :	N/A
Vapour pressure:	N/A	Vapour density :	N/A

十、Stability and reactivity:

Stability:	Stable under normal condition
Possible hazardous reactions in special conditions:	-
The situation to be avoided:	-
Substance to be avoided:	-
Hazardous decomposition products:	High thermal decomposition to produce nitrogen, phosphorus oxidation gas.

十一、Toxic data

Acute toxicity:	N/A
Local effect :	N/A
Sensitivity:	N/A

Chronic or long-term toxicity:	N/A
Special effects :	N/A

十二、Ecological data

Possible environmental impact/Environmental flow cloth:	-
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十三、Disposal method

Handle according to local environmental laws and regulations.

十四、Transport information

International shipping regulations:	Not available for IATA, ICAO. (Non-dangerous goods)
UN number :	--
Domestic transportation regulations:	--
Special delivery methods and matters needing attention:	--

十五、Regulatory data

Applicable regulations:	Applicable to RoHS, GP, WEEE.
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十六、Other data

Rdocument ation :	--		
Tabulating unit:	Name:	Suzhou Serengeti Electronic Material Co., Ltd.	
	Address/Telephone:	NO. 168 north Taiping road, Taicang city , Jiangsu Province/0512-5337 8333	
Lister:	Professional ranks and titles : Department Manager		Name: Huang long
Tabulation date:	16 February, 2019		
Remarks:	The symbol "--" in the above data indicates that there is no relevant information at present. All data and data are used for reference only. Users should judge their availability according to the application requirements.		

MATERIAL SAFETY DATA SHEET

产 品 安 全 资 料

Section1 Preparation Identification and Company 样品标公司

Preparation Identification 标记: 防氧化原液DX-808HT

Manufacturers Name 公司名称: 深圳市东方星化工科技有限公司

Manufacturers Address 地址: 东莞市虎门镇大宁村大板地工业区

Emergency Telephone Number 联系电话: 0769-85015502

Emergency Tex Number 传真: 0769-85015500

Postal code 邮政编码: 523900

Section 2 Composition information on Ingredients

成份组成

学名

化学文摘社登记号码

浓度(%)

(Chemical Name)

(CASNO)

(Concentration)

苯并咪唑 Benzimidazole

95-14-7

1%

甲酸 Formic acid

64-18-6

3%

添加剂 Additives

0.05%

DI 水DI water

7732-18-5

95.95%

Section 3 Hazards Identification

危险性概述

Safety and Risk 安全和危险性: DX-808HT contain formic acid which may cause severe burns. 含有甲酸可能导致灼伤

Section 4 First Aid Measures

急救措施

Eyes 眼睛: flush with plenty of clean, cool water for 15 minutes and get immediate medical attention 大量清水冲洗并尽快就医

Skin 皮肤: flush with plenty of clean, cool water for 15 minutes 大量清水冲洗15 分钟

Ingestion 食入: get immediate medical attention 尽快就医

Section 5 Fire Fighting Measures

消防措施

不可燃

Section 6 Accidental Release Measures

泄漏应急措施

Personal Precautions 个人防护: wears protective clothing, chemical safety goggles, respirator, face shield and rubber gloves 穿戴耐酸防护服, 护目镜、面罩和橡胶手套

Clean-up Procedure 清洗: flush with plenty of clean, cool water 用大量清水冲洗

Section 7 Handling and Storage

操作与储存

Ventilation 通风: Store indoors in a cool dry area

阴凉干燥处

Temperature 温度: Store indoors in a cool dry area

阴凉干燥处

Containers 容器: Keep containers tightly closed. Loosen closure cautiously when opening. 保持容器密封, 打开时慎重

Incompatible Materials 不相容物质: alkalis and oxidizers 碱性和氧化物

Pot Life 有效期: six months 6 个月

Section8 Exposure Controls /Personal Protection 接触控制与个人防护

Ventilation 通风: Exhaust ventilation is recommended 推荐抽出式通风

Respiration 呼吸: respirator。Avoid breathing vapors or mist。防毒面具
避免吸入蒸汽或烟雾

Eyes and Face 眼睛和脸: chemical safety goggles and face shield 护目镜
和脸罩

Hands and Skin 手和皮肤: rubber gloves 橡胶手套

Clothing : protective clothing 耐酸防护服

Section 9 Physical and Chemical Properties 物理和化学特性

Appearance 外观: 浅蓝色液体

Odour 气味: 淡醋酸味

PH: 2.7±0.3

Section 10: Stability and Reactivity 稳定性和反应活性

Chemical Stability 化学稳定性: 弱的反应能力

Incompatible Materials 不相容物质: alkalis and oxidizers 碱性和氧化物

Section 11 Toxicological Information 毒性资料

NDA 无毒

Section 12 Disposal Consideration 废弃处理

Dispose of material in approved sites 中和后过滤排放，过滤物交当地合法
批准单位。

Section 13 生态资料

生态毒性: 无

生物降解性: 无

非生物降解性: 无

其它有害作用: 无

Section 14 法规信息

通用法规:

劳工安全卫生规则

特定化学物预防标准

Section 15 运送资料

国内运输规定: 依道路交通安全规则第84 条

Section 16 其他资料

制表单位: 深圳市东方星化工科技有限公司

制表地址: 东莞市虎门镇大宁村大板地工业区

制表部门: 品质部

制表日期: 2017 年 1 月



Article Information Sheet

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This product is defined as an article based on the definition of an Article under China New Chemical Environmental Management Method MEP Decree No. 7, and does not require a Safety Data Sheet under Dangerous Chemical Safety Management Regulatory China State Council Decree No. 591 and China GB/T16483-2008 Safety Data Sheet for Chemical Products Content and Order of Sections. This article information sheet (AIS) is provided as a courtesy in response to a customer request. When used as recommended or under ordinary conditions, the product should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

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Issue Date: 2015/05/19

Version Number: 1.00
Supersedes Date: Initial Issue

SECTION 1: Identification

1.1. Product identifier

3M™ 300LSE Adhesive Transfer Tapes: 8132LE, 8153LE, 9453FL, 9453LE, 9471FL, 9471LE, 9472FL, 9472LE, 9472LEU, 9653LE, 9671LE, 9672LE and 9698LE

Other means of identification

1.2. Recommended use and restrictions on use

Recommended use

Bonding & Attachment, Industrial use

1.3. Supplier's details

Company: 3M Company
Division: Industrial Adhesives and Tapes Division
ADDRESS: 3M Center, St. Paul, MN 55144, USA
Phone: 021-22105335
FAX: 021-22105036
E Mail: Tox.cn@mmm.com
Website: www.3m.com.cn

1.4. Emergency telephone number

021-22105335

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

This product is considered to be an article and is exempt from GHS classification.

3M™ 300LSE Adhesive Transfer Tapes: 8132LE, 8153LE, 9453FL, 9453LE, 9471FL, 9471LE, 9472FL, 9472LE, 9472LEU, 9653LE, 9671LE, 9672LE and 9698LE

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Paper or Film Liner	Mixture	Not Applicable
Acrylic Polymer Adhesive	Trade Secret	100

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

No need for first aid is anticipated.

Skin Contact:

No need for first aid is anticipated.

Eye Contact:

No need for first aid is anticipated.

If Swallowed:

No need for first aid is anticipated.

SECTION 5: Fire-fighting measures

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

6.2. Environmental precautions

Not applicable.

6.3. Methods and material for containment and cleaning up

Not applicable.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

SECTION 8: Exposure controls/personal protection

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical

under normal use conditions. No engineering controls or personal protective equipment (PPE) are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Specific Physical Form:	Roll of Tape
Appearance/Odor	Translucent adhesive, slight acrylate odor, paper or film quick release liner
Odor threshold	<i>Not Applicable</i>
pH	<i>Not Applicable</i>
Melting point/Freezing point	<i>No Data Available</i>
Boiling point/Initial boiling point/Boiling range	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Evaporation rate	<i>Not Applicable</i>
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Vapor Pressure	<i>Not Applicable</i>
Vapor Density	<i>Not Applicable</i>
Density	<i>Not Applicable</i>
Relative Density	<i>Not Applicable</i>
Water solubility	Nil
Solubility- non-water	<i>Not Applicable</i>
Autoignition temperature	<i>Not Applicable</i>
Decomposition temperature	<i>Not Applicable</i>
Viscosity	<i>Not Applicable</i>
Volatile Organic Compounds	<i>Not Applicable</i>
Percent volatile	<i>Not Applicable</i>
VOC Less H ₂ O & Exempt Solvents	<i>Not Applicable</i>

SECTION 10: Stability and reactivity

This material is considered to be non reactive under normal use conditions.

SECTION 11: Toxicological information

Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

Skin Contact:

No health effects are expected

Eye Contact:

No health effects are expected

Ingestion:

No health effects are expected

Additional Information:

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use

3M™ 300LSE Adhesive Transfer Tapes: 8132LE, 8153LE, 9453FL, 9453LE, 9471FL, 9471LE, 9472FL, 9472LE, 9472LEU, 9653LE, 9671LE, 9672LE and 9698LE

may affect the performance of the product and may present potential health and safety hazards.

SECTION 12: Ecological information

This article is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

SECTION 13: Disposal considerations

Dispose of contents/container in accordance with the local/regional/national/international regulations.

SECTION 14: Transport Information

Not hazardous for transportation.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This product is an article and is exempted from Measures on Environmental Management of New Chemical Substances and from IECSC inventory listing requirements.

SECTION 16: Other information

References

United Nations 'Recommendations on the Transport of Dangerous Goods - Model Regulations '

United Nations 'Globally Harmonized System of Classification and Labelling of Chemicals (GHS)'.

Revision information:

Conversion to AIS.

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3M People's Republic of China AISs are available at www.3m.com.cn

MATERIAL SAFETY DATA SHEET

物 质 安 全 资 料 表

1 、 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 产品和公司资料

1.1PRODUCT MAME: Polyimide reinforcement plate

产品名称: Pi 补强片

1.2PRODUCT USE: Flexible printed circuit Boards.

用途: 用于挠性印制电路板.

1.3Product Model 产品型号

Model:HS2025、HS3025、HS4025、HS5025、HS6025、HS7025、HS8025、HS9025、HS10025

1.4 公司名称及地址: 深圳市溢海通电子有限公司

NAME of COMPANY and ADDRESS: Shenzhen YiHaiTong Electronics Co.,ltd

广东省深圳市宝安区沙井后亭第二工业区 57 号福新大厦 B 栋 602

Building B, Fuxin Chuangke Building,
No.57 Baoan District, Shenzhen, China

Shajing Houting Second Industrial Zone,

FOR MORE INFORMATION CALL:

IN CASE OF EMERGENCY CALL:

紧急联络电话: (Monday~Saturday,9:00am~6:00pm) (24Hours/Day, 7 Days/Week)

0755-33238080

0755-33238080

2 、 COMPOSITION INFORMATION ON INGREDIENTS 组成成份资料

2.1 The main ingredient 主要成分

Ingredient name chemical abstract number weight ratio 成分名称 化学文摘号 重量比

Polyimide film 25038-81-7 30-50% 聚酰亚胺薄膜 25038-81-7 30~50%

Remove 10-25% of the release film / paper when it is used 离形膜/纸 使用时撕掉 10~25%

Acrylates 141-32-2 25-40% 丙烯酸酯 141-32-2 25~40%

Acrylic acid 79-10-7 10-20% 丙烯酸 79-10-7 10~20%

2.2 hazardous ingredients 危害物质成分

No. SGS Test Report:No.CANML1412085401, No.CANML1412085402

2.3 Molecular Structure:分子结构

3 、 HAZARDS IDENTIFICATION 危害性资料

3.1 hazard class filled by GB13690-92 " Classification of hazardous chemicals used and signs " requirement.:

危险性类别 按 GB13690-92 《常用危险化学品的分类及标志》规定填写。

Insoluble in water, no melting point , soluble in acid, alkali .

不溶于水，无熔点，易溶于强酸、强碱。

3.2 Nonflammable sheet material, Fumes if decomposed may irritate eyes、nose and throat..

是一种难燃的片状材料。当分解时产生的气体会刺激眼睛、鼻和咽喉。

POTENTIAL HEALTH HAZARDS:

3.3 A brief description of the extent of environmental harm when hazards caused by certain concentrations of various chemical and biological harm .

环境危害 简要描述化学品在一定浓度时对各种生物造成的危害及其造成危害的程度。

Produces CO₂ and CO decomposition.

分解时会产生 CO₂ 和 CO。

3.4 SKIN: Adhesive may cause moderate skin irritation.

皮肤：胶粘剂可能导致中等程度皮肤过敏。

3.5 EYES: Adhesive may cause eye moderate irritated, Fumes may irritate eyes.

眼睛：胶粘剂可能导致中等程度眼睛过敏。

3.6 INHALATION : Trace of chemical solvents may diffused to air in the processes of varnish preparation and coating production.

吸入物：在涂覆生产过程中，会有很少量化学溶剂挥发出来。

3.7 INGESTION: Not determined.

摄食：没有参考值。

4 、 FIRST AID MEASURES 首要援助措施

SKIN: Washing the contaminated clothing in flowing water.

皮肤：脱下已污染衣服，用流动水冲洗。

EYE: Washing with flowing water for 15 minutes, consult the physician If irritation persists.

眼睛：用流动水冲洗 15 分钟，如过敏现象持续发生，请求助于医生。

INHALATION : Such as dust, smoke to much move to fresh air. If can not breathe, give mouth-to-mouth resuscitation and Call physician.

吸入：如粉末烟尘太多请转移到有新鲜空气的地方，如没有呼吸，请进行人工呼吸，并致电医生。

INGESTION: If large amounts are ingested, consult physician.

摄食：如摄入大量，请致电医生。

ADVICE TO PHYSICIAN: Treat symptomatically.

建议医生：处理出现的症状。

5 、 FIRE FIGHTING MEASURES 火灾测试

FLAMMABLE PROPERTIES: N/A

易燃性：不适用

FLASH POINT: N/A

闪点：不适用

FLASH POINT METHOD: N/A

闪点方式：不适用

AUTOIGNITION TEMPERATURE: Not determined

自燃点温度：无规定

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

燃烧上限：不适用

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

燃烧下限：不适用

FLAME PROPAGATION RATE (Solids) : UL94 V-0

燃烧等级：UL94 V-0

OSHAFLAMMABILITY CLASS: N/A

燃烧级别：不适用

EXTINGUISHING MEDIA: Water, CO₂ and dry chemical.

灭火介质：水、CO₂ 及干化学品

SPECIAL FIREFIGHTING PRECAUTIONS/INSTRUCTIONS:

特别火灾指导：

Firemen should wear proper protective equipment and positive pressure self-contained breathing apparatus.

消防员须身穿保护装置及正压呼吸设施。

6 、 ACCIDENTAL RELEASE MEASURES 意外事故的应变措施

IN CASE OF SPILL OR OTHER RELEASE : (Always wear recommended personal protection equipment)

如有泄漏或其他释放：（通常身穿所推荐的保护设施）

Not applicable for the solid material.

不适用于固体材料。

Spills and releases may have to be reported to local authorities.

有关泄漏应报告当地政府。

7 、 HANDLING AND STORAGE 仓贮指南

7.1 Handling Precautions refers to the process of the operation of the safety of chemicals and personal protection points to note.

操作注意事项 指对化学品操作过程中的安全注意要点和个体防护。

No.

暂无.

7.2 Storage Precautions 存储注意事项

a) disposal: storage spaces non fireworks ,sit housekeeping standards to prevent dust.

处置：存放场所严禁烟火，做好整理、整顿以避免灰尘。

b) Storage: high stability, non-reactive under normal storage conditions.

存储：稳定性高，正常的存储条件下无反应。

8 、 EXPOSURE CONTROLS / PERSONAL PROTECTION 泄漏控制 / 个人保护

ENGINEERING CONTROLS: Use local exhaust ventilation to control dust..

工程控制：使用当地除尘通风设施。

PERSONAL PROTECTIVE EQUIPMENT: 个人保护措施：

SKIN PROTECTION : For brief contact to dust,no precautions other than clean bodycovering clothing should

needed.Use gloves and aprons when prolonged or frequently repeated contact occurs.

皮肤保护：对于短暂性的接触粉尘，需要时清洗身体或衣服，无预防措施。对于长期性的接触，要配

带手套和围裙。

EYE PROTECTION: Use appropriate eye protection when machining material.

眼睛保护：当加工材料时使用眼睛保护装置。

RESPIRATORY PROTECTION: When respiratory protection is required for certain operations, use a NIOSH-approved dust respirator.

呼吸保护：当进行产生大量粉尘的操作时使用规范的粉尘防毒面罩。

ADDITIONAL RECOMMENDATIONS: N/A

其它建议：不适用。

9 、 PHYSICAL AND CHEMICAL PROPERTIES 物理化学性能

9.1 Appearance products 产品外观

Yellow 、 brown 、 black and so on, odorless solid flake materials

黄色，棕色和黑色等，无味固体片状材料。

9.2 PHYSICAL STATE: Solid

物理形态：固体

9.3 ODOR: None, unless heated

气味：无味，除非加热

9.4 Heat of combustion

燃烧热 94-V0

9.5 SOLUBILITY IN WATER: (Weight%) Negligible in water

水溶性：（重量%）在水中可忽略

9.6 The main purpose 主要用途

Mainly used in packing, printing, screen printing, pad printing, nameplates, membrane switches, flexible circuits,

Insulation products, circuit boards, laser security, laminating , electronic, film sealing material, reflective materials,

Waterproof material, medicine(plaster with paper),toilet paper, adhesive, die punching processing and other industries.

主要应用于包装、印刷、丝印、移印、铭板、薄膜开关、柔性线路、绝缘制品、线路板、激光防伪、

贴合、电子、密封材料用膜、反光材料、防水材料、医药（膏药用纸）、卫生用纸、胶粘制品、模切冲型

加工等行业领域。

10 、 STABILITY AND REACTIVITY 稳定性及反应性

10.1 NORMALLY STABLE: (conditions to avoid) Stable

通常稳定：稳定

10.2 INCOMPATIBILITIES: Not determined

不兼容性：不确定

10.3 HAZARDOUS POLYMERIZATION? None

危险聚合物：无

10.4 Condition to avoid 避免接触的条件

Not available: 无资料

10.5Decompositon products 分解产物

Produces Co 2 and Co decomposition.

分解时会产生 Co 2 和 Co.

11 、 TOXICOLOGICAL INFORMATION 毒物学的资料

11.1Acute Toxicity 急性毒性

N/A

11.2Subacute and chronic toxicity 亚急性和慢性毒性

N/A

11.3Irritating 刺激性

N/A

11.4Sensitization 致敏性

N/A

11.5Mutagenicity 致突变性

N/A

11.6Carcinogenicity 致癌性

N/A

11.7Other 其他

N/A

12 、 ECOLOGICAL INFORMATION 生态学资料

Not Biodegradable

非生物降解。

13 、 DISPOSAL CONSIDERATIONS 处置问题

Is the unused product a hazardous waste substances list of country hazardous waste if discarded? No.

列入国家危险废物名录的危险废物不能够再利用时是否被丢弃? 不。

OTHER DISPOSAL CONSIDERATIONS : Dispose must be made in accordance with all applicable Local

regulations.

其它处置问题: 处置必须遵循当地的法律法规。

Suggestion method after products will be discarded :

(1)、Separate reuse method: crush products into powder, recycling as a filler.

(2)、Incineration method: incinerate the unused products, this method may cause organic compound gas.

(3)、Bury into deep earth.

产品报废之后有以下几种处置方法:

(1)、分离法: 将产品粉碎, 可作填充料;

(2)、焚烧法: 焚烧过程中可能产生有机化合物气体;

(3)、填埋法。

14 、 TRANSPORT INFORMATION 运输资料

For additional information on shipping regulations affecting this material,contact the information number found

on the first page.

附带资料是当运输规则影响到物料时, 请和第一页所提供的联系方式联系。

15 、 REGULATORY INFORMATION 法规资料

15.1 Domestic Chemical Safety regulations 国内化学品安全管理法规

“Material Safety Data Sheet preparation specified range” GB/T 16483-2008

《化学品安全技术说明书编写规定范围》GB/T 16483-2008

“Chemical Dangerous Goods Safety Management Regulations” (February 17, 1987 the State Council issued).

《化学危险物品安全管理条例》（1987 年 2 月 17 日国务院发布）

“Common Hazardous Chemicals and signs” (GB13690-1992).

《常用危险化学品的分类和标志》（GB13690-1992）

“Air Pollutant Emission Standards” GB16297-1996

《大气污染物综合排放标志》GB16297-1996

“Sour gas transportation safety regulations” SY6506-2000

《含硫气田安全输送规程》SY6506-2000

“Chemical Dangerous Goods Safety Management Regulation implementing rules” (the Labor Fa[1992] No.677)

《化学危险物品安全管理条例实施细则》（化劳发【1992】677 号）

“Industrial sites safe use of chemicals” (1996 workers are No.423)

《工业场所安全使用化学品规定》(1996 劳都发 423 号)

“Dangerous Goods Classification and code ” GB6944-1986

《危险货物分类和品名编号》GB6944-1986

“Transport of Dangerous Goods Package CATEGORY principle” GB/T15098-1994

《危险货物运输包装类别划分原则》GB/T15098-1994

“Transport of Dangerous Goods Management Regulations” (formerly the Ministry of Railways issued)1995

《危险货物运输管理规则》（原铁道部颁布）1995 年

These laws and regulations for the safe use of hazardous chemicals, production, storage, transport, handling, etc.

are made relevant regulations.

以上法规对化学危险品的安全使用，生产，存储，运输，装卸等方面均做了相关规定。

附 加 法 规 资 料 :

Shenzhen YIHAITONG Electronic Co., Ltd. does not use PBBs or PBDEs as flame retardant in the resin system of the products 深圳市溢海通电子有限公司 没有采用多溴联苯或多溴联苯醚作为阻燃剂在产品的树脂体系当中

16 、 OTHER INFORMATION 其它资料 CURRENT ISSUS DATE: 现在版本日期: 2015-11-12

PREVIOUS ISSUE DATE: 2014-6-25

首次版本日期: 2014-6-25

江阴凯博通信科技有限公司
JIANGYIN KAIBO COMMUNICATION TECHNOLOGY CO., LTD.
Material Safety Data Sheet (物质安全资料表)

一、 物品与厂商资料

物品名称：同轴高频线

物品编号：RF081 系列

制造商或供货商名称、地址：江阴市凯博通信科技有限公司/江苏省江阴市澄江镇梅园大街 391 号

紧急联络电话/传真电话：0510-86070001/86070020

二、 成分辨识资料

纯物质：

中英文名称：聚全氟乙丙烯 FLUORINATED PROPYLENE ETHYLENE/镀锡线 TINNED COPPER/镀银铜线
Cu-silver plated 同义名称：FEP/TX/SC

危害物质成分(成分百分比)：无

危害物质：

危害物质	浓度或浓度范围（单位：ppm）	
铅及其化合物 Pb	≤90	
镉及其化合物 Cd	≤75	
汞及其化合物 Hg	≤1000	
六价铬及化合物	≤1000	
卤素	氯 Cl≤900	氯 Cl+溴 Br≤1500
	溴 Br≤900	
SVHC15 种物质	禁止使用	

三、 危害辨识数据

最 重 要 危 害 效 应	健康危害效应：在 260℃ 以上，可能会有吸入分解气体的危险. 一定要安装排气装置.
	环境影响：要按废弃物处理及清扫法律法规处理, 绝对不可燃烧.
	物理性及化学性危害：物理化学性能及其稳定, 不易降解, 不得擅自填埋 .
	特殊危害： 无
主要症状： 对人的神经系统产生损害	
物品危害分类：大气和水源	

四、 急救措施

不同暴露途径之急救方法：
· 吸入：到空气流通处换气.
· 皮肤接触：无
· 眼睛接触：无
· 食入： 不消化, 排出.
最重要症状及危害效应：无

对急救人员之防护：对流换气
对医师之提示：吸氧

五、灭火措施

适用灭火剂：通用
灭火时可能遭遇之特殊危害：避免分解气体吸入
特殊灭火程序：无
消防人员之特殊防护设备：防毒面罩

六、泄漏处理方法

个人应注意事项：粉状树脂
环境注意事项：不可填埋
清理方法：要按废弃物处理及清扫法律法规处理, 绝对不可燃烧.

七、安全处置与储存方法

处置：避免与高温和火源接触.
储存：通风干燥处.

八、暴露预防措施

工程控制：无
控制参数： · 八小时日时量平均容许浓度/短时间时量平均容许浓度/最高容许浓度： · 生物指标：
个人防护设备： · 呼吸防护：安装排气装置 · 手部防护：无 · 眼睛防护：无 · 皮肤及身体防护：无
卫生措施：应将衣服上附着的灰尘抖落, 手脸洗净, 不要让其附着于香烟上.

九、物理及化学性质

物质状态：固体	形状：透明颗粒
颜色：透明	气味：无
pH 值：7	沸点/沸点范围：/
分解温度：360°C	闪火点：/
自燃温度：/	爆炸界限：/
蒸气压：/	蒸气密度：/
密度：2.2	溶解度：/

十、安定性及反应性

安定性：很稳定
特殊状况下可能之危害反应：高温或燃烧分解气体对人体神经系统的损害.
应避免之状况：绝对不可燃烧.
应避免之物质：金属钠及其强酸的混合物 .

危害分解物： 气体及粉尘.

十一、毒性资料

急毒性： /
局部效应： /
致敏感性： /
慢毒性或长期毒性： /
特殊效应： /

十二、生态资料

可能之环境影响/环境流布： 不降解, 禁填埋

十三、废弃处置方法

废弃处置方法： 按废弃物处理及清扫法律法规要求送专业资质处理公司处置.

十四、运送资料

国际运送规定： /
联合国编号： /
国内运送规定： 无
特殊运送方法及注意事项： 无

十五、法规资料

适用法规： 遵循欧盟 REACH 法规相关要求。

十六、其它数据

参考文献	杜邦产品说明/SONY 限用物资标准
制窗体位	名称： 江阴凯博通信科技有限公司
	地址/电话： 江阴市澄江街道梅园大街 391 号/0510-86070017
制 表 人	姓名(签章)： 庄科洁
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