



Dongguan Yijia Electronics Communication Technology Co.,Ltd.

规格承认书

SPECIFICATION FOR APPROVAL

日期 2021/10/22
Date _____
编 号 21102203
File No. _____
版 本 1.0
Revision _____

客户户 CUSTOMER: Shenzhen Fine Offset Electronics Co., Ltd.

客户料号 CUSTOMER NO: Home Weather Station

品 名 PART NAME: 868/915MHz Antenna

供方料号 SUPPLIER NO: YJW05.003.001.301A

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

	CHECK	DESIGN
ChenGuoqiang	WenXue	ChenXingyi

YJ-RD-F04-A



Acknowledgement Item List

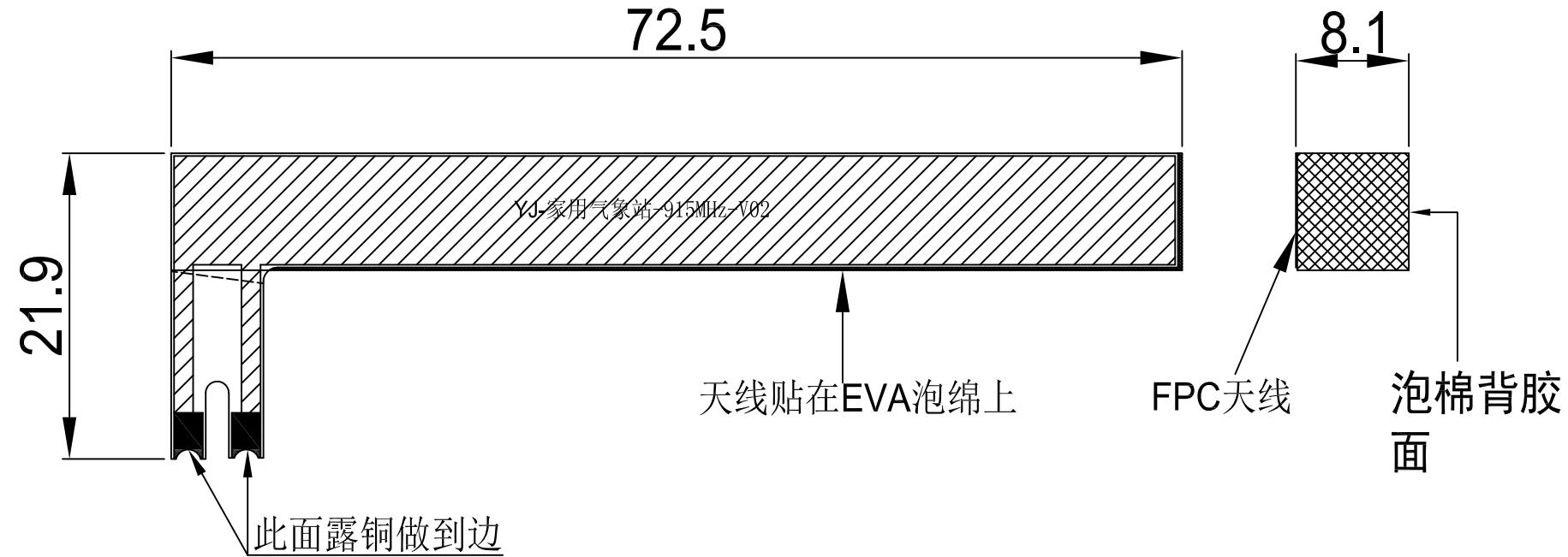
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10	N/A	N/A	N/A
11	-	-	-
12	-	-	-
13	-	-	-

RoHS

Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	首次发行	2021-10-21



布線區 露銅區

备注:

1. 材质: 一对半PI基材, 铜箔厚度0.5oz, 成品厚度不含离型纸: 0.1mm。
2. 颜色/表面处理: 单面黑色油墨、白色丝印。 露铜区镀金处理, 反面3M9471背胶、离型纸带分割线。
3. 尺寸: 带*为重点尺寸。
4. 公差: 未标注公差参照标准公差。



Tel:0769-82586086
Dongguan Yijia Electronics Communication Technology Co.,Ltd. Fax:0769-82586086

PART NAME: 915MHz Antenna

PART NO.: YJW05.003.001.301A

DATE: 2021-10-21

APPROVED BY	CHECKED BY	DESIGNED BY	Tolerance
YIN TAO	SUN HONG	LV SENYE	UNITS: mm
			SCALE: 1/1
			REVISION: C
			X° ±3°



天线规格

Antenna Specification

Electrical Properties

Frequency	868/915MHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	0.1dBi
Radiation	Omni-directional
Polarization	Linear

Physical Properties

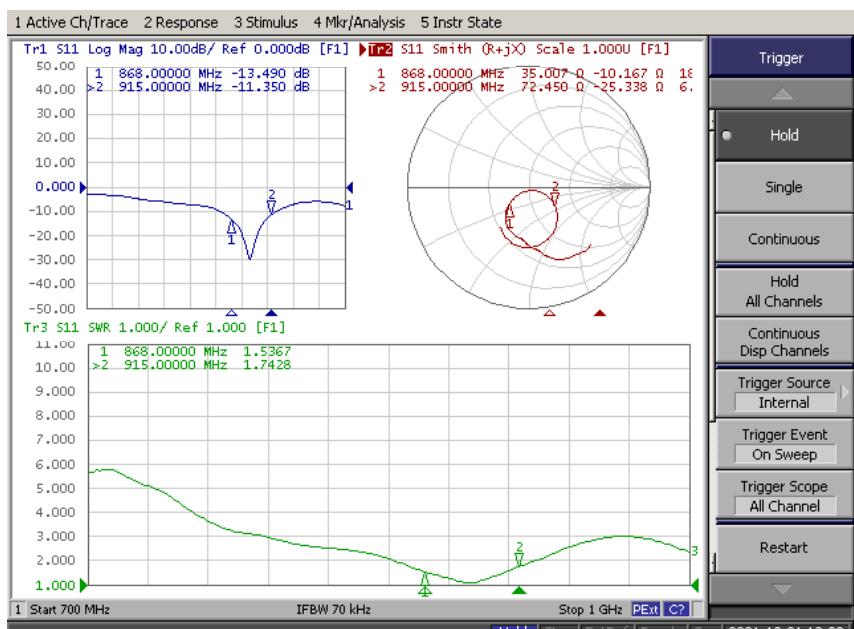
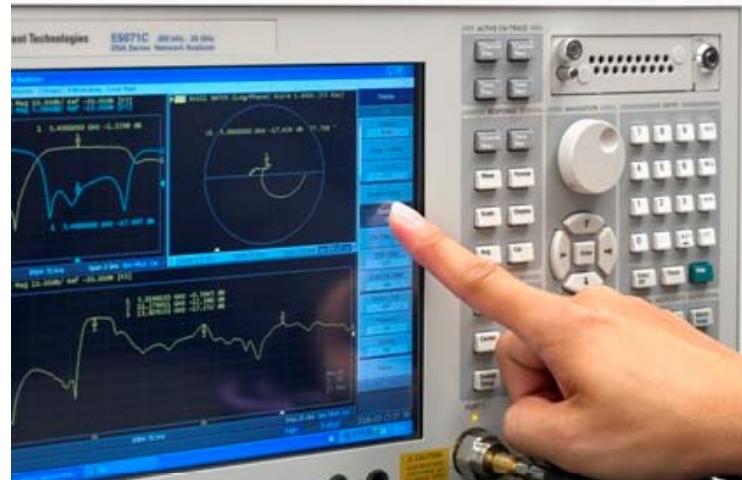
Connector	None
Cable Type	None
Cable Length	None
Cable Color	None
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%



Antenna Performance Test

*Agilent
E5071B*

*S
Parameter
Test //
868MHz/
915MHz
Antenna*





Antenna Passive Test





Passive Test For 868MHZ/915MHZ

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
868	39.6	-4.0	-0.1
872	39.7	-4.0	-0.2
876	41.1	-3.9	0.0
880	40.4	-3.9	-0.2
884	37.9	-4.2	-0.4
888	37.2	-4.3	-0.5
892	39.8	-4.0	-0.2
896	42.6	-3.7	0.1
900	42.0	-3.8	0.0
904	37.0	-4.3	-0.5
908	34.5	-4.6	-0.8
912	35.2	-4.5	-0.7
916	35.8	-4.5	-0.6

add: Yuanfu Industrial Zone, No.59, Muyu Road, Shatou Community, Chang'an Town, Dongguan City
Tel: 0769-82586086 Fax: 0769-82586086



Device





868MHz
915MHz
Antenna



Material Safety Data Sheet (MSDS)

一、 Substance name and manufacturer information:

物质名称: 黑色EVA发泡胶

制造厂商名称: Huizhou Fanzhongbao Rubber & Plastic Foam Factory Co., Ltd.

制造厂商地址: Xintang Industrial Zone, Qiubao Road, Qiuchang Town, Huiyang District, Huizhou City, Guangdong Province

电话0752-6518111 传真 0752-3770000

二、 产品化学成份及组成:

成份(中文名称)	成份比例	化学物质识别码 CAS#
乙烯-醋酸乙烯共聚物	66 %	24937-78-8
碳酸钙	10 %	471-34-1
硬脂酸	1. 5 %	57-11-4
双叔丁基过氧异丙基苯	0. 5 %	25155-25-3
偶氮二甲酰胺	10 %	123-77-3
氧化锌	1 %	1314-13-2
炭黑	11 %	1333-86-4

三、 物质形态、气味: 板状固体

四、 气味: 轻微塑胶味

五、 物理性能:

压缩变型率: 4. 5%以下

延伸度: 280 %

抗拉强度: 5kg~10kg/cm²

吸水率: 0. 005 以下 g/cm²

各硬度产品密度 :

25 度 0. 109g/cm³

38 度 0. 101g/cm³

45 度 0. 124g/cm³

60 度 0. 201g/cm³

70 度 0. 239g/cm³

80 度 0. 325g/cm³

六、 化学特性:

耐苯, 酸碱。

耐温: 65° 开始软化, 90° 将开始熔缩。

自然常温下使用, 5 年开始老化。

长期温度在 40℃以上使用, 3 年开始出现老化

说明: 老化是指氧化后会变成粉末。

七、 健康、危险性概述:

健康危害: 在正常作业下、正常使用下无危害

安定性: 常温下极安定。

特殊状况下可能之危害反应：不会发生

危害之解物：无

危险性类别：易燃，应远离烟火

侵入途径：无

环境危害：无

健康影响：无

燃爆危险：本品可燃

八、急救措施：

皮肤接触：被熔融接触皮肤立即以大量清水冷却后依烫伤之临床处理。

眼睛接触：提起眼睑，用流动清水或生理盐水冲洗。就医。

吸入：不需要

食入：催吐、就医。

九、消防措施：

危险特性：易燃品，应远离烟火

灭火方法：消防人员须佩戴防毒面具、穿全身消防服，在上风向灭火。

灭火剂：水、泡沫、干粉、二氧化碳、砂土。

十、操作处置与储存：

操作注意事项：远离火种、热源。避免与氧化剂、化学品接触。

储存注意事项：储存于阴凉、自然通风条件的库房可存放 10 年。

远离火种、热源。

应与氧化剂、化学物品分开存放，切忌混储。

配备相应品种和数量的消防器材。

十一、接触控制/个体防护：

其他防护：工作现场严禁吸烟。保持良好的卫生习惯。

十二、产品用途：

产品用途：玩具、鞋材、箱包、电子电器、包装材料、工艺品、彩印丝印、运动器材的防护用品等辅料使用。

十三、废弃处置：

废弃处置方法：在当地政府及法令允许下回收加工循环使用或焚埋，亦可委托法定废弃物处理者。

十四、运输信息

注意事项：应成卷放入包装袋或成片放入包装袋中。严禁与氧化剂、化学品等混装混运。运输途中应防高温。

十五、法规信息

适用法规：无

Material safety data sheet

Article and manufacturer information

Item name :KTM-150F WM
Other 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:

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. 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:	-
---------------------------------------------------------	---

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

物质安全数据(MSDS)

一、物品与厂商资料

页数: 1/2

物品名称: FPC 电镀镍金 (Flexible Printed Circuit)

其他名称: FPC 镀镍金层

建议用途及限制使用: 通讯类产品

制造商或供货商名称: 东莞市飞扬电镀有限公司

制造商或供货商地址: 东莞市虎门镇凤凰山今机工业园 C 栋 202 车间

紧急联络电话/传真电话: 076981617804/076981617804

二、危害辨识数据

物品危害分类: 其他危险物、急毒性物质第 4 级 (吞食、皮肤、吸入)

标示内容:



象 征 符 号: 其他危险物、惊叹号

警 示 语: 警告

危害警告讯息: 吞食有害、吸入有害

危害防范措施: 置容器于通风良好的地方; 避免皮肤、眼睛接触; 如遇意外或觉得不适, 立即洽询医疗

其他危害: -

三、成分辨识资料

混合物

中英文名称: 镍 (NICKELL) CAS NO.7440-02-0 百分比 98.95%
金 (Gold) CAS NO.7440-57-5 百分比 1%
光亮剂 / 百分比 0.05%

同义名称: 金手指镍金层

化学文摘社登记号码(CASE No):

危害物质成分(成分百分比):

四、急救措施

不同暴露途径之急救方法:

吸 入: -会刺激呼吸道

皮肤接触: 以肥皂及清水清洗接触部位

眼睛接触: 大量水冲洗 15 分钟以上, 并寻求医疗协助

食 入: 喝大量的水, 并寻求医疗协助

最重要症状及危害效应: 具刺激性。

对急救人员之防护: 应穿着 C 级防护装备在安全区实施急救

对医师之提示: 患者吸入时, 考虑给予氧气。吞食时, 考虑洗胃。

五、灭火措施

适用灭火剂:

二氧化碳、化学干粉、水雾、酒精泡沫。

灭火时可能遭遇之特殊危害:

加热至干, 盐将分解产生一氧化碳及二氧化碳。

特殊灭火程序:

1.喷水雾冷却暴露于火场中的容器。2.喷水雾冲开外泄物, 以免暴露。

消防人员之特殊防护装备:

配戴全身式化学防护衣及空气呼吸器(必要时外加闪火铝质批覆外套)

六、物理及化学性质

页数: 2/2

	物质状态	颜色	气味	比重	熔点	沸点
NI	固态	银白色	无味	8.9	1453°C	2732°C
AU	固态	黄色	无味	19.3	1064°C	2807°C
光亮剂	液态	浅棕色	无味	1.1	NA	NA

七、安全处置与储存方法

处置:

避免接触眼睛皮肤及衣物, 穿戴个人防护用具, 不要吸入雾气

储存:

储存在凉爽干燥的地方

八、废弃物处置方法

废弃物方法:

- 依现行法规处理。
- 依照厂家的处理先处理废弃物待处理的废弃物
- 依照国家地方政府有关工业废水排放标准规定执行

九、泄漏处理方法

个人注意事项: 穿戴适当的个人防护装备。

环境注意事项: 对泄漏区通风换气。

清理方法: 以大量清水稀释, 并清洗排至水沟。

十、暴露预防措施

工程控制: 1.局部排气装置、2.整体换气装置、3.通风系统需用抗蚀材质, 并与其他排气系统分开。

控制参数			
八小时日时量平均容许浓度 TWA 1mg/m3	短时间时量平均容许浓度 STEL 2mg/m3	最高容许浓度 CEILING -	生物指标 BEIs -
个人防护设备:			
呼吸防护: - 手部防护: 防渗手套, 材质以天然橡胶、丁基橡胶、聚乙烯醇为佳。 眼睛防护: 化学安全护目镜、面罩。 皮肤及身体防护: 上述橡胶材质之防渗衣服、工作鞋			
卫生措施:			
1.工作后尽速脱掉污染之衣物, 洗净后才可再穿戴或丢弃, 且须告知洗衣人员污染物之危害性 2.工作场所严禁抽烟或饮食。3.处理此物后, 需彻底洗手。4.维持作业场所清洁			

十一、安定性及反应性

安定性:
正常状态下安定, 若加热至熔点, 可能发生升华及分解。
特殊状态下可能之危害反应:
1.碱: 可能发生剧烈反应, 产生热及压力。2.氧化剂(如亚氯酸纳、次氯酸纳): 可能产生剧烈或爆炸性反应。3.银: 可能行程爆炸性草酸银。4.碱金属(如钠或钾): 可能剧烈反应生成易燃性的氢气。5.铁及铁化物(如氧化铁): 可能迅速反应行成草酸铁。6.酰基氯: 可能剧烈反应, 生成毒性熏烟。7.受热
应避免之状况: 受热
应避免之物质:
1.碱。2.氧化剂 6.酸
危害分解物: 无

十二、毒性资料

暴露途径: -
症状: -
急毒性: 无 吸入: 无 皮肤: 无具刺激性 眼睛: 无具刺激性 食入: 无于口中及喉中产生灼热感、腹部疼痛、反胃、恶心、呕吐
慢毒性或长期毒性: 1.可能造成肾结石, 排尿困难及疼痛。2.可能造成体重下降, 上呼吸道慢性发炎。3.会造成皮肤局部疼痛、溃烂或坏死以及指甲变色。
十三、生态资料
生物毒性: LC50(鱼类): - EC50(水生无脊椎动物): - 生物浓缩系数: -
持久性及降解性: - 生物蓄积性: 在体内不太会分解, 大部分会以草酸或草酸钙盐形式由尿中排出, 而此不溶盐会在体内蓄积如石头, 造成肾及尿道结石。 土壤中之流动性: 当释放至土壤中, 可能会渗入地下水及生物分解。 其他不良效应: -

十四、运送资料

联合国编号: -UN1760CORROSIVE LIQUID
联合国运输名称: -
运输危害分类: 第 9 类其他危险物质
包装类别: -
海洋污染物(是/否): 否
特殊运送方法及注意事项: -

十五、法规资料

适用法规:
1.劳工安全卫生设施规则。
2.危险物及有害物通识规则。
3.劳工作业环境空气中有害物容许浓度标准。
4.道路交通安全规则。
5.事业废弃物储存清除处理方法及设施标准。

十六、其他数据

参考文献	MSDS 数据库
制表者单位	名称: 东莞市飞扬电镀有限公司 地址/电话: 东莞市虎门镇凤凰山今机工业园 C 栋
制表人	职称: 品管员 姓名(签章): 李敏
制表日期	2017/07/13
备注	上述数据中符号 “-” 代表目前尚无相关数据, 而符号 “/” 代表此字段对该物质并不适用

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



Article Information Sheet

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Document Group:

07-7168-3

Version Number:

1.00

Issue Date:

2015/05/19

Supercedes 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

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

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 H₂O & 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

1.1 PRODUCT NAME: Polyimide reinforcement plate

产品名称: Pi 补强片

1.2 PRODUCT USE: Flexible printed circuit Boards.

用途: 用于挠性印制电路板.

1.3 Product 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 Anonflammable 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, CO 2 and dry chemical.

灭火介质: 水、CO 2 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 仓库指南

7.1Handing 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.

7.2Storage 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 contactoccurs.

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

9.1Appearance 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。

9.2PHYSICAL STATE: Solid

物理形态：固体

9.3ODOR: None, unless heated

气味：无味，除非加热

9.4Heat of combustion

燃烧热 94-VO

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

水溶性：(重量%) 在水中可忽略

9.6The 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

10.1NORMALLY STABLE: (conditions to avoid) Stable

通常稳定：稳定

10.2INCOMPATIBILITIES: Not determined

不兼容性：不确定

10.3HAZARDOUS POLYMERIZATION? None

危险聚合物：无

10.4Condition to avoid 避免接触的条件

Not available: 无资料

10.5 Decomposition 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

11.1 Acute Toxicity 急性毒性

N/A

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

N/A

11.3 Irritating 刺激性

N/A

11.4 Sensitization 致敏性

N/A

11.5 Mutagenicity 致突变性

N/A

11.6 Carcinogenicity 致癌性

N/A

11.7 Other 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 filer.

(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 CATEGORYprinciple” 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

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 4th RD.KUANYIN INDUSTRIAL

MSDS Number* **20110701AAA**

DISTRICT TAOYUAN HSIEN TAIWAN

CAS Number*

07/01/2011

Phone Number (For Information)

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

Data Prepared

HUANG CHIN HUAI

Emergency Phone Number

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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/m ³	10mg/m ³
Silica, amorphous, fused	7631-86-9	<8%	N.D.	dustTLV10mg/m ³
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**

SUITABLE EXTINGUISHING MEDIA	: Carbon dioxide, foam, powder.
UNSUITABLE EXITINGUISHING 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**

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**

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**

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**

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**

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**TOXICOLOGICAL INFORMATION****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.

SECTION 12**ECOLOGICAL INFORMATION**

ACUTE FISH TOXICITY : Ecological data are not available

BIODEGRADABILITY : No data available.

SECTION 13**DISPOSAL CONSIDERATIONS**

Incineration or landfill in accordance with local regulations.

SECTION 14**TRANSPORT INFORMATION**

ADR : Inflammable liquid

IMDG-CODE : Free

IATA : Free

US DOT : Combustible liquid

UN : Free
FLASH POINT : 75.0°C

SECTION 15

REGULATORY INFORMATION

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

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 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.