



产品安全数据说明书

MATERIAL SAFETY DATA SHEET

1、产品及公司信息 Product and Company Identification

产品名称：厚膜片式电阻器

Product Name: Thick Film Chip Fixed Resistor

供应商名称：广东风华高新科技股份有限公司

Supplier Name: Guangdong Fenghua Advanced Technology (Holding)Co.,Ltd

地址：中国广东省肇庆市风华路 18 号风华电子工业园

Address: Fenghua Electronic Industrial City, 18th Fenghua Road, Zhaoqing, Guangdong, China

联系电话(Tel): +86-758-6923477

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2、危害辨识资料 Hazards Identification

有害物质分类规定：不适用

Hazards Material Classification: Not Applicable

理化特性：固体，非化学品

Physical and Chemical Character: Solid, not chemical product

人体危害性：无危害

Human Health Hazards: Not Applicable

其他危害：无

Other hazards: Not Available.

3、材料成分信息 Composition/Information on ingredients Pure material/Mixtures

物质 Substance	化学文摘社号码 CAS No.	化学式 Formula	重量% Weigh %
三氧化二铝 Aluminum oxide	1344-28-1	Al ₂ O ₃	77~85%
氧化镁 Magnesium oxide	1309-48-4	MgO	1.3~1.5%
氧化钙 Calcium oxide	1305-78-8	CaO	0.2~0.3%
二氧化硅 Silicon dioxide	7631-86-9	SiO ₂	1.6~1.8%
银 Silver	7440-22-4	Ag	1.5~2.8%
钯 Palladium	7440-05-3	Pd	<0.1%
氧化硅 Silicon oxide	11126-22-0	SiO	0.3~0.8%

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三氧化二铋 Bismuth trioxide	1304-76-3	Bi ₂ O ₃	0.6~1.2%
铅玻璃(含钨、铅、铝、钙、硅等元素) Glass(include Ru、Pb、Al、Ca、Si)	65997-18-4	O ₃ PbSi ₂	0.5~0.8%
炭黑 Carbon black	1333-86-4	C	<0.1%
滑石粉 Talc	14807-96-6	3Mg-4SiO ₂ -H ₂ O	0.1~0.2%
三氧化二铬 Chromium oxide	1308-38-9	Cr ₂ O ₃	<0.1%
环氧树脂 Epoxy resin	1675-54-3	C ₂₁ H ₂₄ O ₄	0.4~1.0%
酚醛树脂 Phenolic Resin	9003-35-4	C ₇ H ₆ O ₂	0.1~0.4%
二氧化硅 Silicon dioxide	60676-86-0	SiO ₂	0.5~1.0%
双酚 A 型环氧树脂(E-03 型) Epoxy resin	25085-99-8	---	<0.2%
二氧化钛 Titanium dioxide	13463-67-7	TiO ₂	<0.1%
硫酸钡 Barium sulfate	7727-43-7	BaSO ₄	<0.1%
镍 Nickel	7440-02-0	Ni	3.5~6.5%
铬 Chromium	7440-47-3	Cr	<0.1%
锡 Tin	7440-31-5	Sn	2.1~3.6%

4、急救方法 First Aid Measures

此类产品常态下极其稳定，无刺激性，一般不需急救。如有误食，请及时求医。

The products are extremely stable under normal conditions, no irritation; first aid is not needed generally. In case of accidental ingestion, call medical advice immediately.

5、灭火措施 Fire-fighting Measures

适用灭火剂：不燃物质

Suitable fire extinguishing media: This product is incombustible.

灭火时可能遭遇之特殊危害：无

Specific hazards may be encountered during fire-fighting: None.

特殊灭火程序：无

Special equipment for the protection of firefighters: No.

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6、泄露应急处理 Accidental Release Measures

此类产品常态下极其稳定，无毒害性和刺激性，用扫帚将其扫起来即可。

The product is normally stable, no irritant; sweep with normal broom.

7、操作处置与储存 Handling and Storage

处置：无特殊要求，注意防止潮湿。

Handling: No special requirements and it should be control the humidity of storage site.

储存：存放在阴凉的地方，避免阳光及潮湿。避免存放于有腐蚀性气体的环境。避免长时间存放。

Storage: Store in cool and dark room away from heat, sunshine or dampness. To avoided storage in place full of corrosive gas. Avoid long time storage.

储存条件 Storage Condition: 温度 T:5°C~35°C; 湿度 RH: 45%~70%.

8、接触控制/个人防护 Exposure Controls/Personal Protection

控制参数：无

Control Parameter: No available.

预防措施： 无需

Prevent Measures: No available.

个人防护设备： 无需特殊设备

Personal Protection: No special equipment.

9、理化特性 Physical and Chemical Properties

外观、颜色、气味：白色基体上带银色金属和黑色表面的固体颗粒，无气味。

Appearance、Color、Odor: White carries with silver metal and black surface solid mixture, no odor.

pH 值：不适用

pH value: Not available.

易燃性（固体、气体）：不燃

Flammability (solid, gas): incombustible.

自燃温度：不燃

Auto-ignition temperature: incombustible.

10、人体危害性（稳定性及活性） Stability and Reactivity

此类产品常态下极其稳定， 无特殊活性。

The product is normally stable, no special mobility.

不相容性：强酸、强碱、强氧化剂

Incompatibility: acid、alkali、oxidant

危害分解物：无

Hazardous decomposition: No.

11、毒性资料 Toxicological Information

暴露途径：不使用

Routes of exposure: Not availble.

症状：无

Symptoms: No.

急毒性：无

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Aute toxicity: No.

慢毒性或长期毒性: 无

Chronic toxicity or long term toxicity: No.

12、生态资料 Ecological Information

生态毒性: 无

Ecotoxicity: No.

持久性及降解性: ——

Persistence and degradability: ——

生物蓄积性: ——

Bioaccumulative potential: ——

土壤中之流动性: ——

Mobility in soil: ——

其它不良效应: 无

Other adverse effects: No.

13、废弃处置 Disposal Considerations

此类产品含有重金属, 废弃时应按危险废弃物处理法规进行处置。

The product contains heavy metal, disposing should be following the danger and waste regulations.

14、运输信息 Transport Information

联合国编号: 不适用

United Nations number (UN No): Not available.

联合国运输名称: 不适用

UN Proper shipping name: Not available.

运输危害分类: 不适用

Transport hazard class (es): Not available.

包装类别: 不适用

Packing group: Not available.

海洋污染物 (是/否): 否

Marine pollutant (Yes/NO): No.

特殊运送方法及注意事项: 无

Specific transport measures and precautionary conditions: No.

15、规章制度 Regulatory Information

适用法规: 2011/65/EU, EC-1907-2006, SS00259

Applicable regulations: 2011/65/EU, EC-1907-2006, SS00259

16、其他信息 Other Information

制表单位: 广东风华高新科技股份有限公司端华片式电阻器分公司

Organization that prepared the MSDS: Guangdong Fenghua Advanced Technology (Holding) Co., Ltd

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