

(Revision Date: 10-May-2010)¹

(修订日期: 10-May-2010)²

1 Identification of the substance/preparation and of the company/undertaking

物质/制剂鉴定以及公司/承诺

1.1 Identification of the substance or preparation

物质/制剂鉴定

Bonding Wire for electronic applications, specifically product type PdSoft.

用在电子应用中的焊线，特别是 PdSoft。

1.2 Use of substance/preparation

物质用途/准备

Bonding process in the electronics

电子制造中的焊接工艺

1.3 Company/undertaking identification

公司/事业鉴定

Heraeus Materials Singapore Pte Ltd

Block 5002 Ang Mo Kio Avenue 5 #04-05 TECHplace II Singapore 569871

Tel: (65) 6571 7888 Fax: (65) 6571 7778

电话: (65) 6571 7888 传真: (65) 6571 7778

1.4 Emergency telephone

紧急电话

(65) 6571 7888

2 Hazards identification

危害识别

The product does not require a hazard warning label.

本产品不需要危险警告标签。

3 Composition/information on ingredients

成分信息

Description 说明	CAS No. CAS序号	EINECS No. EINECS序号	Content 含量
Copper 铜	7440-50-8	231-159-6	>97.1 %
Palladium 钯	7440-05-3	231-115-6	<2.9%

4 First aid measures

急救措施

This SDS is valid for 5 years from date of release.

本安全数据表的有效期为5年。

4.1 Ingestion: Palladium coated copper ingestion causes nausea, vomiting, abdominal pain, metallic taste and diarrhoea. Ingestion of large doses may cause stomach and intestine ulceration, jaundice, and kidney and liver damage.

食入镀钯铜将导致恶心、呕吐、腹痛、腹泻，味觉感到有金属性。摄入大剂量可导致胃和肠道溃疡，黄疸，以及肾脏和肝脏的损害。

4.2 Inhalation Not applicable
吸入 不适用

4.3 Skin contact: Causes irritation to skin. Symptoms include redness, itching, and pain. Exposure to Palladium coated Copper dust may cause a greenish-black discoloration.

皮肤接触:可能导致皮肤不适，症状有：发红、发痒、疼痛。接触到铜钯粉末可能会产生墨绿色斑点。

4.4 Eye contact: Small Palladium coated copper particles in the eye may cause irritation, discoloration, and damage.

眼睛接触:微小镀钯铜颗粒不慎入眼可能造成眼睛不适，有斑点甚至影响视力。

4.5 Physician indication Not applicable
医生指导 不适用

5 Fire-fighting measures
消防措施

5.1 Suitable extinguishing media Not applicable
可用灭火介质 不适用

5.2 Unsuitable extinguishing media Not applicable
禁用灭火介质 不适用

5.3 Hazardous decomposition products Not applicable
危险分解物 不适用

5.4 Special protective equipment for fire fighters Not applicable
消防人员的特殊保护设施 不适用

6 Accidental release measures
紧急疏散措施

6.1 Personal precautions Not applicable
人员防范 不适用

6.2 Environmental precautions Not applicable
环境防范 不适用

6.3 Methods for cleaning up Not applicable
清理方式 不适用

7 Handling and storage
操作与储藏

7.1 Handling No safety or environmental hazard
操作 无境危害环

7.2 Storage No safety or environmental hazard
存储 无境危害环

7.3 Specific use 特殊用途	No safety or environmental hazard 无境危害环
8 Exposure controls/personal protection 暴露控制/个人防护	
8.1 Exposure limit values 暴露限制	Not applicable 不适用
8.2 Exposure controls measures 曝光控制措施	Not applicable 不适用
8.3 Environmental exposure controls measures 环境暴露管制措施	Not applicable 不适用
9 Physical and chemical properties 物理与化学性质	
9.1 General information 概述	
Appearance 物理形态	Solid 固体
Colour 颜色	Silver 银色
Odour 气味	Odourless 无味
9.2 Important health, safety and environmental information 重要健康、安全与环境信息	
pH pH值	Not applicable 不适用
Flash point 闪点	Not applicable 不适用
Flammability 可燃性	Not flammable 不易燃
Explosive properties 爆炸性能	No data 没有数据
Oxidising properties 氧化性能	No oxidising properties 无氧化性能
Vapour pressure 气化压力	Not applicable 不适用
Relative density 相对密度	9.02 g/cm ³ 9.02g/cm ³
Water solubility 水溶性	Insoluble in water 不溶于水

Viscosity 粘性	Not applicable 不适用
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9.3 Other information 其他信息

Melting point 熔點	1083°C 1083°C
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Auto-ignition temperature 自燃溫度	Not applicable 不适用
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10 Stability and reactivity 稳定性和反应

10.1 Conditions to avoid 需避免的环境	None known 无
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10.2 Materials to avoid 需避免接触的物质	None known 无
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10.3 Hazardous deposition products 有害沉积产品	None known 无
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11 Toxicological information 毒理学信息

None
无

12 Ecological information 生态学信息

12.1 Ecotoxicity 生态毒性	None known 无
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12.2 Mobility 迁移率	None known 无
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12.3 Persistence and degradability 降解性	None known 无
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12.4 Bio accumulative potential 生态积累潜力	None known 无
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12.5 Other adverse effects 其他不利因素	None known 无
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13 Disposal considerations 废弃建议

13.1 Waste disposal 废弃建议废料处理	
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Palladium coated copper containing waste is normally collected to recover copper value. Should waste disposal be deemed necessary, follow all Federal, State and Local disposal

regulations.

含镀钯铜废料通常需被回收，因此废料处理需符合联邦、州和地区的相关规定。

14 Transport information

运输须知

14.1 This is not a hazardous product according to the transport regulations: RID (rail, 96/49/EC), ADR (road, 94/55/EC), IMDG (sea) and ICAO/IATA (air).

根据有关运输规定 RID(铁路运输,96/49/EC),ADR(公路运输,94/55/EC),IMDG(海运),ICAO/IATA(空运)，本产品非危险。

15 Regulatory information

法规信息

According to our present knowledge, this product is not subject to any regulation.

本产品符合目前所有法律法规。

16 Other information

其他信息

16.1 No relevant R-Phases.

无相关R-阶段。

16.2 The information contained herein is based on the present state of our knowledge and is intended to describe our product from the point of view safety requirements. It does therefore not guarantee specific properties of the products.

这里所提供的信息是根据我们目前的认知，旨在从安全要求的角度来陈述本产品。因此，本文对产品的详细特性不作保证。