RD0401/4 Rev G Safety Data Sheet (SDS) - Copper Bonding Wire

RD0401/4修订版G 安全数据表-铜焊线

(Revision Date: 4-Jan-2012)¹ (修订日期: 4-Jan-2012)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 types DHF, iCu, MaxSoft, MaxSoftLD & RelCu.

使用在的电子应用中的铜焊线,特别是DHF, iCu, MaxSoft, MaxSoftLD和RelCu产品。

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	CAS No.	EINECS No.	Content
说明	CAS序号	EINECS序号	含量
Copper	7440-50-8	231-159-6	98.7 - 100%
铜			

4 First aid measures

急救措施

4.1 Ingestion: Copper ingestion causes nausea, vomiting, abdominal pain, metallic taste and diarrhoea.

1

¹ This SDS is valid for 5 years from date of release.

²本安全数据表的有效期为5年。

Ingestion of large doses may cause stomach and intestine ulceration, jaundice, and kidney and liver damage.

食入铜将导致恶心、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。

Not applicable

4.2 Inhalation

吸入 不适用

4.3 Skin contact: Causes irritation to skin. Symptoms include redness, itching, and pain. Exposure to 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。接触到铜粉末可能会产生墨绿色斑点。

4.4 Eye contact: Small copper particles in the eye may cause irritation, discoloration, and damage. 眼睛接触: 微小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

7.3 Specific use No safety or environmental hazard

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

Reddish brown

铜色

Colour 颜色

рН

Odour Odourless 气味 无味

9.2 Important health, safety and environmental information

重要健康、安全与环境信息

Not applicable

pH值 不适用

Flash point Not applicable

闪点 不适用

Flammability Not flammable

可燃性 不易燃

Explosive properties

No data

Oxidising properties No oxidising properties

Vapour pressure Not applicable

气化压力 不适用

Relative density 8.94 g/cm³ (DHF, iCu, MaxSoft and

MaxSoftLD) or 8.98 g/cm³ (RelCu)

相对密度 8.94 g/cm³ (DHF, iCu, MaxSoft and

MaxSoftLD) or 8.98 g/cm³ (Re1Cu)

Water solubility Insoluble in water

水溶性 不溶于水

Viscosity Not applicable

粘性 不适用 不适用

9.3 Other information

其他信息

Melting point 1083°C (DHF, iCu, MaxSoft and MaxSoftLD)

or 1076°C (RelCu)

熔點 1083°C (DHF, iCu, MaxSoft and MaxSoftLD) or

1076°C (Re1Cu)

Not applicable

Auto-ignition temperature

自燃溫度

不适用

10 Stability and reactivity

稳定性和反应

10.1Conditions to avoid
需避免的环境None known
无

10.2Materials to avoid
需避免接触的物质None known
无

10.3Hazardous deposition products
有害沉积产品None known
无

11 Toxicological information

毒理学信息

None

无

12 Ecological information

生态学信息

12.1 Ecotoxicity None known

12.2 Mobility None known

12.3 Persistence and degradability None known

注

12.4 Bio accumulative potential None known

12.5 Other adverse effects None known

其他不利因素 无

13 Disposal considerations

废弃建议

13.1 Waste disposal

废弃建议废料处理

Copper containing waste is normally collected to recover copper value. Should waste disposal be deemed necessary, follow all Federal, State and Local disposal regulations.

无

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。