



材料安全技术说明书

Material Safety Data Sheet (MSDS)

According to Regulation (EC) No.1907/2006 and its amendment

Regulation (EU) 2020/878, and Regulation (EC) No 1272/2008

文件号/File No.: DTI2026EE080226

日期/Date:2026-03-03

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Applicant Company Name: Cook Cooper Electric (shanghai) Co., Ltd.

公司名称:库克库伯电气(上海)有限公司

Applicant Company Address:Room A56, 4th Floor, Block B 505 Xinbei Road Minhang District Shanghai

公司地址:上海-上海-闵行区 莘北路 505 号 18 幢 4 层 A56 室

Report on the submitted samples said to be:

委托样品及申请者对样品的说明如下:

Sample Name : Capacitor 电容器
 样品名称

Sample No. : CKKB480-22.76-3-ES(AK)、440~480V-3~40kvar-Three-phase/Single-phase
 型号

Trademark 商标 : Cooke kolb

Edit Date : March 03, 2026
 编写日期 : 2026 年 03 月 03 日

Revision 修改日期 : /


Version 版本 : 1.0

Details : Please refer to next page(s).
 内容 : 参见后续页

要求/REQUEST

A As specified by the client, to edit **Material Safety Data Sheet (MSDS)** for the submitted sample.
 根据申请单位要求, 对所送样品编辑制作**材料安全技术说明书(MSDS)**。

Shenzhen Deesev Testing International Corp.
 深圳市德泽威技术检测有限公司

Approved by: 
 Tommy Jiang / Lab Manager
 批准 蒋能强/实验室主任



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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

第 1 部分：产品和公司标识

1.1 Product identifier/产品标识

Product name/产品名称: Capacitor 电容器

Product model/产品型号: /

UFI unique formula identifier/UFI 唯一配方识别码: No information available 无可用信息

1.2 Relevant identified uses of the substance or mixture and uses advised against:

物质或混合物的相关确定用途和建议的用途:

Identified uses: No information available.

确定用途: 无可用信息。

Uses advised against: No information available.

不建议使用用途: 无可用信息。

1.3 Details of the supplier of the safety data sheet/安全数据表供应商的详细信息:

Supplier: /

供应商: /

Address:/

地址: /

Telephone: /

电话: /

1.4 Emergency telephone number/紧急电话:

US 美国 911

Canada 加拿大 911

EU 欧盟 112

UK 英国 999

Singapore 新加坡 999

Malaysia 马来西亚 112

Australia 澳大利亚 000

New Zealand 新西兰 111

Russia 俄罗斯 02

Supplier Telephone 供应商电话: /



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SECTION 2. HAZARDS IDENTIFICATION

第 2 部分：危害识别

2.1 Classification of the substance/mixture according to the globally harmonized system of classification and labeling of chemicals(GHS) and Regulation 1272/2008/EC(CLP).

2.1 根据全球化学品统一分类和标签制度 (GHS) 和第 1272/2008/EC 号法规 (CLP) 对物质/混合物进行分类

Physical hazards物理危害: Not classified as hazardous.未归类为危险品。

Health hazards健康危害: Not classified as hazardous.未归类为危险品。

Environmental hazards环境危害: Hazardous to the aquatic environment - Chronic Hazard, Category 2

对水生环境有害-慢性危害, 第2类

2.2 Label elements/标签要素

Hazard pictogram(s)/危险象形图:



Signal word/信号词:Not applicable.不适用。

Hazard statement(s)/危险声明:

H411 Toxic to aquatic life with long lasting effects 对水生生物有毒, 影响持久

Precautionary statements/预防说明:

P273 Avoid release to the environment.避免释放到环境中。

P391 Collect spillage.收集溢出物。

P501 Dispose of contents / container regulations in accordance with local / regional / national / international requirements.根据当地/地区/国家/国际要求处理内容物/容器规定。

Additional information:No Information available.

附加信息:无可用信息。

Hazard-determining components of labeling: Copper (59#) ; Zinc.

标签的危害确定成分:黄铜 (59#) ; 锌。

2.3 Other hazards/其他危险:

Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.Product does not contain ingredients, which identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100.

产品不含符合 REACH 法规附件 XIII 中 PBT 或 vPvB 标准的成分。该产品不含任何被认定具有内分泌干扰作用的成分, 基于欧盟委员会第 2017/2100 号条例所规定的标准。



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

第3部分：化合物成分信息

3.1 Chemical characterization: Mixed substances

3.1 化学特性：混合物质

Product: consisting of the following components.

产品：由以下组件组成。

Chemical Name 成份名称	CAS No. CAS 号	Weight percentage 相对含量%	Classification acc. to 1272/2008/EC 危险等级分类
Asphaltum 沥青	8052-42-4	36%	Not classified
Polypropylene 聚丙烯薄膜	9003-07-0	31%	Not classified
Stainless steel (430 #) 不锈钢 (430#)	/	11%	/
Copper (59#) 黄铜 (59#)	7440-50-8	6%	Aquatic Acute 1(H400) Aquatic Chronic 1(H410)
Poly(vinyl chloride) 塑胶线 (PVC 线)	9002-86-2	6%	Not classified
Bisphenol-A-polycarbonate 聚碳酸酯 (PC)	25037-45-0	3.5%	Not classified
Zinc 锌	7440-66-6	2.5%	Pyr. Sol. 1(H250) Water-react. 1(H260) Aquatic Acute 1(H400) Aquatic Chronic 1(H410)
Others (tin wire, PET film, etc.) 其它 (锡丝、PET 膜等)	7440-31-5, 25038-59-9	4%	Not classified



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SECTION 4. FIRST AID MEASURES

第 4 部分：急救措施

4.1 Description of first aid measures

急救措施说明

Skin contact: Under normal circumstances will not cause irritate.

皮肤接触：正常情况下使用，不会造成任何刺激。

Eyes contact: Lifting the upper and lower eyelids, flush the eyes with plenty of water or saline water.

眼睛接触：立即翻开上下眼睑，用流动清水或生理盐水冲洗。

Inhalation: Under normal circumstances will not inhalation. advice/attention.

吸入：一般情况下，不会吸入。

Ingestion: Ingestion discomfort, get medical aid.

食入：食入不适，立即送医进一步治疗。

4.2 Most important symptoms and effects, both acute and delayed: No information available.

最重要的急性和迟发症状和影响：无可用信息。

4.3 Indication of any immediate medical attention and special treatment needed: No information available.

需要立即就医和特殊治疗的迹象：无可用信息。

SECTION 5. FIRE-FIGHTING MEASURES

第 5 部分：消防措施

5.1 Extinguishing media

灭火剂

Suitable extinguishing agents: Powder, CO₂, Sandy clay.

合适的灭火剂：泡沫，干粉，二氧化碳，砂土。

Unsuitable extinguishing agents: No information available.

不合适的灭火剂：无可用信息。

5.2 Special hazards arising from the substance or mixture: No information available.

物质或混合物引起的特殊危害：无可用信息。

5.3 Protective equipment

消防方法

Put out the fire in the upwind direction. Remove the container to the open space as soon as possible.

所有人员必须佩戴过滤式防毒面具(全面罩)或独立的呼吸器，穿全身消防防护服。尽量在上风处灭火，尽可能将容器移至空旷处。



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SECTION 6. ACCIDENTAL RELEASE MEASURES

第 6 部分：意外泄漏措施

6.1 Personal precautions, protective equipment and emergency procedures

个人预防措施、防护设备和应急程序

Use personal protective equipment as required.

根据需要使用个人防护设备。

6.2 Environmental precautions

环境预防措施

Avoid release to the environment. Avoid discharge into drains, surface water or groundwater.

避免释放到环境中。避免排入下水道、地表水或地下水。

6.3 Methods and material for containment and cleaning up

围堵和清理的方法和材料

Absorb with earth, sand or other non-combustible material and transfer to container.

用泥土、沙子或其他不可燃物质吸收并转移到容器中。

6.4 Reference to other sections

参考其他章节

See Section 7 for information on safe handling.

有关安全处理的信息，请参见第 7 节。

See Section 8 for information on personal protection equipment.

有关个人防护设备的信息，请参见第 8 节。

See Section 13 for disposal information.

处置信息见第 13 节。

SECTION 7. HANDLING AND STORAGE

第 7 部分：处理和储藏

7.1 Handling

搬运

Use personal protective equipment as required. Do not get in eyes.

根据需要使用个人防护设备。切勿弄进眼睛。

7.2 Conditions for safe storage, including any incompatibilities

安全储存条件，包括任何不相容性

Keep container tightly closed and in a cool, well-ventilated area.

保持容器密闭，并置于阴凉、通风良好的区域。

7.3 Specific end use(s): No information available.

特殊最终用途：无可用信息。



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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

第 8 部分：接触控制/个人防护

Appropriate engineering controls: Provide local exhaust or process enclosure ventilation system.

适当的工程控制： 提供局部排气或工艺外壳通风系统。

Respiratory protection: In case of inadequate ventilation wear respiratory protection.

呼吸保护： 如果通风不足，请佩戴呼吸保护装置。

Skin protection: Wear protective gloves.

皮肤防护： 戴防护手套。

Eye protection: Wear protective eye/face protection.

眼睛保护： 戴上眼睛/面部保护装置。

Body protection: Wear protective clothing to prevent contact.

身体防护： 穿防护服，防止接触。

Environmental exposure controls: Avoid release to the environment. Avoid discharge into drains, surface water or groundwater.

环境暴露控制： 避免释放到环境中。避免排入下水道、地表水或地下水。

Other protection: Attention to personal hygiene.

其他防护： 注意个人卫生。

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

第 9 部分：物理化学性质

9.1 Information on basic physical and chemical properties/基本理化性质信息

Appearance/外观: No data available.无可用数据。

Colour/颜色: No data available.无可用数据。

Form形状/: No data available.无可用数据。

Odour/气味: No data available.无可用数据。

Kinematic viscosity(mm²/s):No data available

运动粘度(mm²/s): 无可用数据。

Particle characteristics: No data available

粒子特性： 无可用数据。

9.2 Additional information: No data available.

附加信息： 无可用数据。



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SECTION 10. STABILITY AND REACTIVITY

第 10 部分：稳定性和反应性

10.1 Reactivity: Stable under recommended storage and handling conditions.

反应性：在推荐的储存和搬运条件下稳定。

10.2 Chemical stability: Stable under normal conditions of use, storage and transport.

化学稳定性：在正常使用、储存和运输条件下稳定。

10.3 Possibility of hazardous reactions: No dangerous reactions known.

危险反应的可能性：没有已知的危险反应。

10.4 Conditions to avoid: No information available.

应避免的条件：无可用信息。

10.5 Incompatible materials: No information available.

不相容材料：无可用信息。

10.6 Hazardous decomposition products: No information available.

危险分解产物：无可用信息。

SECTION 11. TOXICOLOGICAL INFORMATION

第 11 部分：毒理学信息

11.1 Information on toxicological effects/毒理学信息

Acute toxicity: Based on available data, the classification criteria are not met .

急性毒性：根据现有数据，不符合分类标准。

Skin corrosion/irritation: Based on available data, the classification criteria are not met .

皮肤腐蚀/刺激：根据现有数据，不符合分类标准。

Serious eye damage/irritation:Based on available data, the classification criteria are not met .

严重眼睛损伤/刺激：根据现有数据，不符合分类标准。

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

呼吸或皮肤致敏：根据现有数据，不符合分类标准。

Toxicokinetics, metabolism and distribution: Based on available data, the classification criteria are not met .

毒代动力学、代谢和分布：根据现有数据，不符合分类标准。

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Based on available data, the classification criteria are not met .

CMR 效应（致癌、致突变性和生殖毒性）：根据现有数据，不符合分类标准。

Results of endocrine properties assessment: Product does not contain ingredients, which identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100.该产品不含任何被认定具有内分泌干扰作用的成分，基于欧盟委员会第 2017/2100 号条例所规定的标准。



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SECTION 12. ECOLOGICAL INFORMATION

第 12 部分：生态学信息

12.1 Toxicity

毒性

Aquatic toxicity: Hazardous to the aquatic environment - Chronic Hazard, Category 2.

已知毒性：对水生环境有害-慢性危害，第 2 类

12.2 Persistence and degradability

持久性和降解性

No further relevant information available.

没有进一步的相关信息。

12.3 Bioaccumulative potential

生物累积潜力

No further relevant information available.

没有进一步的相关信息。

12.4 Mobility in soil

土壤流动性

No further relevant information available.

没有进一步的相关信息。

12.5 Results of PBT and vPvB assessment

PBT 和 vPvB 评估结果

Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

产品不含符合REACH法规附件XIII中PBT或vPvB标准的成分。

12.6 Other adverse effects

其他不利影响

No information available.

无可用信息。

SECTION 13. DISPOSAL CONSIDERATIONS

第 13 部分：废置处理

13.1 Waste treatment methods/废物处理方法

Dispose in accordance with all applicable regional and local laws and regulations.

根据所有适用的区域和地方法律法规进行处置。



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SECTION 14. TRANSPORT INFORMATION

第 14 部分: 运输信息

14.1 UN number/UN号码:

ADR: UN 3077

IMDG: UN 3077

ICAO: UN 3077

14.2 UN proper shipping name/正确的装运名称:

ADR: Solid substances harmful to the environment, not otherwise specified.

对环境有危害的固态物质, 未另作规定的。

IMDG: Solid substances harmful to the environment, not otherwise specified.

对环境有危害的固态物质, 未另作规定的。

ICAO: Solid substances harmful to the environment, not otherwise specified.

对环境有危害的固态物质, 未另作规定的。

14.3 Transport hazard class/运输危险等级(es): 9

14.4 Packing group/包装组:

ADR: III

IMDG: III

ICAO: III

14.5 Environmental hazards/环境危害:Not available./无可用信息。

14.6 Special precautions for user/用户特别注意事项:

Move carefully to prevent leakage during carriage. Keep necessary protective articles at hand in case of accident. Use emergency escape mask when in need.

搬运时要小心, 防止渗漏。随身携带必要的防护用品, 以防事故。在需要使用紧急逃生面罩。

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

根据MARPOL附则II和IBC规则进行散装运输: Not available/无可用信息。



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SECTION 15. REGULATORY INFORMATION

第 15 部分: 法规信息

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

针对该物质或混合物的安全、健康和环境法规/立法

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).

Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (Text with EEA relevance).

Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

欧洲议会和理事会2006年12月18日第1907/2006 /EC号条例, 关于化学品的注册、评估、授权和限制(REACH), 建立欧洲化学品管理局, 修订指令1999/45/EC, 废除理事会法规(EEC)第793/93号和委员会法规(EC)第1488/94号, 以及理事会指令76/769/EEC和委员会指令91/155/EEC, 93/67/EEC, 93/105/EC和2000/21/EC。

欧洲议会和理事会2008年12月16日条例(EC) No 1272/2008, 关于物质和混合物的分类、标签和包装, 修订和废除指令67/548/EEC和1999/45/EC, 以及修订条例(EC) No 1907/2006(与欧洲经济区相关的文本)。

2015年5月28日委员会法规(EU) No 2015/830修订欧洲议会和理事会法规(EC) No 1907/2006关于化学品的注册、评估、授权和限制(REACH)(与欧洲经济区相关的文本)。

全球化学品统一分类和标签制度(GHS)。

SECTION 16. OTHER INFORMATION

第 16 部分: 其他信息

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

根据在本文件发布日期我们所能获得最佳信息, 我们制定了本物质材料安全资料表; 本表内容数据为安全设计, 产品的安全生产、使用、处理、储存、运输、处理提供参考意见; 本资料不被认为是一种保证或质量规范。

16.1 Full text if indicated H phrases mentioned/全文 (如有注明) H短语:

H411 Toxic to aquatic life with long lasting effects 对水生生物有毒, 影响持久

*** End of Document ***

*** 全文结束 ***