

MSDS 报告 MSDS Report

报告编号: LA2024B1594021M
Report No.:

样品名称
Samples 圆柱型锂离子电池
Cylindrical Li-ion Battery

样品型号
Model 18500 1200mAh 3.7V

委托单位
Applicant 深圳市创科慧科技有限公司
Shenzhen Chuangkehui Technology Co., Ltd

生效日期
Effective Date 2025-01-01

深圳市莱恩瑞斯科技有限公司
Shenzhen Lionaces Technology Co., Ltd.

报告专用章

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化学品安全技术说明书
Material Safety Data Sheet

依据 GB/T16483-2008&ISO11014:2009 编制
According to GB/T16483-2008&ISO11014:2009

第一部分 化学品及企业标识
Section 1 - Chemical Product and Company Identification

化学品信息 Chemical product information					
样品名称 Sample Name		圆柱型锂离子电池 Cylindrical Li-ion Battery			
型号与规格 Model and specification		18500 1200mAh 3.7V 3.7V 1200mAh 4.44Wh			
产品推荐及限制用途 Sample Uses		N/A			
单位信息 Company information					
实验室 Laboratory		深圳市莱恩瑞斯科技有限公司 Shenzhen Lionaces Technology Co., Ltd.			
实验地址 Testing Address		广东省深圳市宝安区福海街道和平社区永和路骏丰工业区 B6 栋 301 301, Building B6, Junfeng Industrial Zone, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen, Guangdong, China			
委托单位 Applicant		深圳市创科慧科技有限公司 Shenzhen Chuangkehui Technology Co., Ltd			
委托单位地址 Applicant address		深圳市龙华区大浪街道浪口社区浪口工业园 80 号 202 金地大科技园 C1 栋 2 楼 2F, C1 Building, Jin Di Da Technology park, No.80 Langkou Industrial Park, Langkou Community, Dalang Street, Longhua District, Shenzhen, Guangdong, P.R.China			
生产单位 Manufacturer		四川创科慧科技有限公司 Sichuan Chuangkehui Technology Co., Ltd			
生产单位地址 Manufacturer address		四川省资阳市乐至县天童大道 1503 号 A2 栋、A4 栋 Building A2 & A4, No.1503, Tiantong Avenue, Lezhi County, Ziyang City, Sichuan Province, China.			
应急电话 Emergency telephone		13823200392			
备注 Remark		V1.0			
收样日期 Receiving Date		2024-12-23		完成日期 Completing Date	
2024-12-23				2024-12-23	
主检人: Prepared by		审核人: Checked by		批准人: Approved by	
					

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第二部分 危险性概述 Section 2 - Hazards Identification

紧急情况概述: 无相关详细资料。

Emergency overview: No information available.

GHS 危险性分类: 根据化学品全球统一分类与标签制度(GHS)的规定, 不是危险物质。

Classification according to GHS: Not a dangerous substance according to GHS.

GHS 标签要素 Label elements	
危害类型象形图 Hazard pictogram(s)	无数据 No data available
警示词 Signal word	无数据 No data available
危险性说明 Hazard statement(s)	无数据 No data available
防范说明 Precautionary statement(s)	
预防措施 Prevention	无数据 No data available
事故响应 Response	无数据 No data available
安全储存 Safe storage	无数据 No data available
废弃处置 Disposal	无数据 No data available

物理和化学危险: 无相关详细资料。

Physical and chemical risk: No information available.

健康危害: 无相关详细资料。

Health hazard: No information available.

环境危害: 无相关详细资料。

Environmental hazards: No information available.

其它危害: 无相关详细资料。

Other hazards: No information available.

第三部分 成分/组成信息 Section 3 - Composition, Information on Ingredients

该物质或混合物的分类: ☐ 物质 ☒ 混合物

Classification of the substance or mixture: ☐ substance ☒ mixture

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化学名称 Chemical Composition	CAS No.	百分含量 Weight (%)
镍钴锰酸锂 Lithium nickel cobalt manganate	346417-97-8	39.63
石墨 Graphite	7782-42-5	19.72
电解液 Organic electrolyte	N/A	13.61
铝 Aluminum	7429-90-5	5.79
聚(亚乙烯氟) PVDF Polyvinylidene fluoride	24937-79-9	0.58
铜 Copper	7440-50-8	9.53
丁苯橡胶 SBR Styrene-Butadiene polymer	9003-55-8	0.51
聚乙烯 Polyethylene	9002-88-4	0.05
聚丙烯 Polypropylene	9003-07-0	0.96
其他 Other	N/A	9.62

注Note: CAS: 化学文摘社Chemical Abstracts Service (Division of the American Chemical Society).
“N/A”: 无数据No Data

第四部分 急救措施 Section 4 - First Aid Measures

总说明: 正常情况下, 不需要特别的措施。

General information: No special measures required.

吸入: 立即将人员移至通风处, 如果呼吸困难, 速进行人工呼吸抢救。如症状持续, 速就医。

After inhalation: Remove victim to fresh area. Administer artificial respiration if breathing is difficult.
Seek medical attention.

皮肤接触: 脱去污着衣物, 用大量的水清洗, 然后清洗双手, 衣物清洗后再使用。如果症状持续, 速就医。

After skin contact: Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

眼睛接触: 张开眼睛在流水下冲洗数分钟, 如果症状仍然持续, 请咨询医生。

After eye contact: Flush eyes with plenty of water for several minutes while holding eyelids open.
Get medical attention if irritation persists.

食入: 禁止催吐, 速就医。

After swallowing: Do not induce vomiting. Get medical attention.

急性和迟发效应

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Acute and delayed effects

主要症状: 无相关详细资料。

The main symptoms: No relevant details information.

健康影响: 无相关详细资料。

Health effects: No relevant details information.

对保护施救者的忠告: 无相关详细资料。

To protect the rescuers advice: No relevant details information.

对医生的建议: 需要及时的医疗处理及特别处理的症状, 无相关详细资料。

To the doctor's advice: Need timely medical treatment and special symptoms, no relevant details information.

第五部分 消防措施 Section 5 - Fire Fighting Measures

灭火剂: 使用适合当地情况和周围环境的灭火剂, 如干粉, CO₂。

Suitable extinguishing agents: Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO₂.

特别危险性: 在起火条件下, 电池可能会破裂, 释放出有害的分解产物。在经受高温(> 150°C(302°F)) 时, 含有易燃电解液的电池, 可能泄漏, 点燃, 产生火花, 当损坏或滥用(如机械损伤或过度充电) 时, 可能燃烧迅速与耀斑燃烧效果, 也可能引燃其他在电池附近衣服。

Special hazards arising from the substance or mixture: Battery may burst and release hazardous decomposition products when exposed to a fire situation. Battery contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C(302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

灭火方法注意事项及防护措施: 如起火, 佩戴自主呼吸机和防护服。

Attention extinguishing method and protective measures: Wear self-contained respirator. Wear fully protective impervious suit.

第六部分 泄露应急处理 Section 6 - Accidental Release Measures

作业人员防护措施、防护装备和应急处置程序: 穿上保护装备, 疏散人群, 确保有足够的通风。

Homework personnel protective measures, protective equipment and emergency disposal procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

环境保护措施: 若无政府许可, 勿将材料排入周围环境。

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

泄漏化学品的收容、清除方法及所使用的处置材料: 从泄露区移除所有的火源, 隔离人员。用一个不产生粉尘的方法打扫处理泄漏物, 尽可能多地收集泄漏处理物于有标签的合适的容器中。泄露处理物禁止倒入下水道, 沟渠或水源。所有废弃物必须参照联合国, 国家, 地方性法规进行处置。

Steps to be taken in case material is spilled or released and Waste disposal method: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal

container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

防止次生灾害的预防措施: 有关安全处理的资料请参阅第七部分。有关个人防护装备的资料请参阅第八部分。有关弃置的资料请参阅第十三部分。

To prevent the secondary disasters prevention measures: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

第七部分 操作处置与储存 Section 7 - Handling and Storage

操作注意事项: 储存时远离食物和水源。吃饭喝水前彻底清洗双手。储有化学物的容器搬用时需防止静电的产生和积聚。

Precautions for safe handling: Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

有关火灾及防止爆炸的资料: 电池在拆开、挤压、遇火或高温情况下, 会引起起火或爆炸, 严禁短路或非正确操作。

Information about fire and explosion protection: Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

储存注意事项: 储存在一个低温, 干燥, 通风良好的环境。远离热源, 避免长时间阳光照射。未使用时密封容器。

Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the long time of sunlight.

第八部分 接触控制/个体防护 Section 8 - Exposure Controls, Personal Protection

职业接触限值: 无相关详细资料。

Occupational exposure limit: no relevant details information.

生物限值: 无相关详细资料。

Biological limit: no relevant details information.

检测方法: 无相关详细资料。

Detection: no relevant details information.

工程控制

Engineering control

一般保护和卫生措施: 当处理化学物品时, 应遵循一般的预防措施。远离食物和水源。立即脱掉所有脏衣服或被污染的衣物。在休息之前和工作结束之后洗手。

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

呼吸防护: 高浓度的情况时, 使用适当的呼吸器。

Respiratory Protection: Use suitable respirator when high concentrations are present.

个人防护设备 Personal Protection

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手防护 Hand protection	眼睛防护 Eye protection
 Protective gloves	 Tightly sealed goggles

第九部分 理化特性 Section 9 - Physical and Chemical Properties

外观：蓝色

Appearance: Blue

形状：近圆柱体

Form: Approximate cylinder

气味：泄漏时，有刺激性气味。

Odour: If leaking, smells of medical ether

酸碱度：不适用

pH: Not applicable as supplied.

闪点：针对单个组分暴露情况，其他不适用。

Flash Point: Not applicable unless individual components exposed.

易燃度：针对单个组分暴露情况，其他不适用。

Flammability: Not applicable unless individual components exposed.

相对密度：针对单个组分暴露情况，其他不适用。

Relative density: Not applicable unless individual components exposed.

溶解性（水溶性）：针对单个组分暴露情况，其他不适用。

Solubility (water): Not applicable unless individual components exposed

溶解性（其他）：针对单个组分暴露情况，其他不适用

Solubility (other): Not applicable unless individual components exposed.

第十部分 稳定性和反应活性 Section 10 - Stability and Reactivity

稳定性：正常情况下稳定。

Chemical stability: Stable in normal circumstances.

危险反应：无资料。

Possibility of hazardous reactions: Data not available.

应避免条件：火焰，火花和其他热源，禁忌物。

Conditions to Avoid: Flames, sparks, and other sources of ignition, incompatible materials.

禁配物：氧化剂，酸，碱。

Incompatibilities: Oxidizing agents, acid, base.

危险的分解产物：二氧化碳，一氧化碳。

Hazardous Combustible Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

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第十一部分 毒理学资料 Section 11 - Toxicological Information

对毒理学影响的信息

Information on toxicological effects

急性毒性LC50/LD50: 无相关详细资料。

Acute toxicity LD/LC50 Values relevant for classification: Not available.

注: LC50: 半数致死浓度 (lethal concentration, 50 percent kill)

LD50: 半数致死剂量 (lethal dose, 50 percent kill)

皮肤刺激/腐蚀: 无相关详细资料。

Skin irritation/corrosion: No further relevant information available.

眼睛刺激/腐蚀: 无相关详细资料。

Eyes stimulus/corrosion: No further relevant information available.

呼吸或皮肤过敏: 无相关详细资料。

Breathing or skin irritation: No further relevant information available.

生殖细胞突变性: 无相关详细资料。

Germ cell respectively: No further relevant information available.

致癌性: 无相关详细资料。

Carcinogenicity: No further relevant information available.

生殖毒性: 无相关详细资料。

Reproductive toxicity: No relevant details information.

特异性靶器官系统毒性——一次性接触: 无相关详细资料。

Specific target organ system toxicity disposable contact: No further relevant information available.

特异性靶器官系统毒性——反复接触: 无相关详细资料。

Specific target organ system toxicity, repeated contact: No further relevant information available.

吸入危害: 无相关详细资料。

Inhalation hazard: No further relevant information available.

潜在的有害效应: 无相关详细资料。

Potentially harmful effects: No further relevant information available.

第十二部分 生态学资料 Section 12 - Ecological Information

生态毒性

Ecological toxicity

水生毒性: 无相关详细资料。

Aquatic toxicity: No further relevant information available.

持久性和降解性: 无相关详细资料。

Persistence and degradability: No further relevant information available.

环境系统习性

Behaviour in environmental systems

潜在的生物累积性: 无相关详细资料。

Bioaccumulative potential: No further relevant information available.

土壤内移动性: 无相关详细资料。

Mobility in soil: No further relevant information available.

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生态学资料

Ecological effects

额外的生态学资料: 无相关详细资料。

Additional ecological information :No further relevant information available.

总括注解: 若无政府许可, 勿将材料排入周围环境。

General notes:Do not allow material to be released to the environment without proper governmental permits.

其他副作用: 无相关详细资料。

Other adverse effects: No further relevant information available.

第十三部分 废弃处置 Section 13 - Disposal Considerations

废弃处置方法建议: 请参考国家和地方的相关法规正确进行处理。

Waste treatment methods and Recommendation: Consult state, local or national regulations to ensure proper disposal.

受污染的容器和包装建议: 必须根据官方的规章来丢弃。

Uncleaned packaging and Recommendation: Disposal must be made according to official regulations.

第十四部分 运输信息 Section 14 - Transport Information

运输标签: 电池标签, 或锂电池和钠离子电池第九类危险品标签, 或仅限货机标签

Label for conveyance: Battery Label, or Lithium Battery or Sodium Ion Battery Class 9 Label, or Cargo Aircraft only

UN 编号: 3480 & 3481

UN Number: 3480 & 3481

包装等级: N/A

Packaging Group: N/A

海洋污染物: 无

Marine pollutant: No

正确的装运名称: 锂离子电池(包括锂聚合物电池), 或锂离子电池与设备包装在一起, 或锂离子电池安装在设备中

Proper Shipping name: Lithium Ion Battery (Including Lithium Polymer Battery) , Lithium Ion Battery Packed With Equipment, Lithium Ion Battery Contained In Equipment

运输信息: 锂电池需要通过联合国《试验和标准手册》第III部分 38.3 小节相应测试要求。

锂离子电池瓦时额定值不超 100Wh, 或者锂离子电池芯瓦时额定值不超 20Wh, 根据第 66 版 DGR 手册 965 第 IB 节或 966~967 第 II 节的指令可以运输。货物运输应遵守 IMDG CODE (Amdt. 42-24) 2024 版特殊规定 188 的要求, 该货物属于非限制性货物。

Transport information: Lithium batteries are required to pass the corresponding test requirements of the United Nations Manual of Tests and Standards, Part III, subsection 38.3.

The lithium-ion battery with a watt-hour rating not exceeding 100Wh or the cell with the watt-hour rating is not exceeding 20Wh, The lithium-ion battery according to Section IB of Packing Instruction 965, or Section II of Packing Instruction 966~967 of the Dangerous Goods regulations 66th Edition may be transported. The goods shall be complied with the requirements of special

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provision 188 of IMDG CODE (Amdt. 42-24) 2024 , The goods to be transport as Unrestricted goods.

第十五部分 法规信息 Section 15 - Regulatory Information

法律信息

Law information

《危险物品规则》

《Dangerous Goods Regulations》

《对危险货物运输的有关规定的建议》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《国际海运危险货物规则》

《International Maritime Dangerous Goods》

《危险品安全运输技术指令》

《Technical Instructions for the Safe Transport of Dangerous Goods》

《危险货物分类和品名编号》

《Classification and code of dangerous goods》

《职业安全卫生法》

《Occupational Safety and Health Act》(OSHA)

《有毒物质控制法》

《Toxic Substance Control Act》(TSCA)

《消费产品安全法》

《Consumer Product Safety Act》(CPSA)

《联邦环境污染控制法》

《Federal Environmental Pollution Control Act》(FEPCA)

《石油污染法案》

《The Oil Pollution Act》(OPA)

《超级基金修正案和再授权法案III(302/311/312/313)》

《Superfund Amendments and Reauthorization Act TitleIII (302/311/312/313)》(SARA)

《资源保护及恢复法案》

《Resource Conservation and Recovery Act》(RCRA)

《安全饮用水法》

《Safety Drinking Water Act》(CWA)

《加州 65 提案》

《California Proposition 65》

《美国联邦法规》

《Code of Federal Regulations》(CFR)

In accordance with all Federal, State and local laws

根据所有联邦、州和地方法律。

此MSDS符合法规 (EU) No 2020/878.

This Material Safety Data Sheet complies with the requirements of Regulation (EU) No 2020/878.

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第十六部分 其他信息 Section 16 - Additional Information

注意 Declare to reader:

上述信息是基于现有的数据信息，在实际应用过程中可能出现其他未预料的情况，其相应信息可能需要修改，我方不承担此项责任。在操作中请根据实际情况作出相应的正确的处置。

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SDS Service Summary

No.: SHAEC25000014701

Date: 08 Jan 2025

Page 1 of 1

SGS Job No.	:	SHP24-042660
Applicant	:	Yuyao Weili Spring Co.,Ltd
Product Name	:	Hair Clipper Lubricant Bottle
Composition/Ingredient of product (as per applicant submission)	:	See <i>section 3 Composition/information on ingredients</i> on the SDS
Job Receiving Date	:	02 Jan 2025
Last Information Date	:	03 Jan 2025
SDS Preparation Period	:	02 Jan 2025-06 Jan 2025
Service Requested	:	Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.
Summary	:	As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product.

SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.



Cathy Cai
Project Engineer

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 06.01.2025

Version number 1

Revision: 06.01.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Hair Clipper Lubricant Bottle
- **CAS Number:**
8020-83-5
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Lubrication, suitable for plastic and hardware materials
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
Yuyao Weili Spring Co., Ltd
No.42 Sixty Mutou New Village, Hudi Village, Linshan Town, Yuyao City, Zhejiang Province
Tel: 0574-62067097
E-mail: 469689178@qq.com
- **Only Representative / other EU contact point:** Not available
- **1.4 Emergency telephone number:**
IRELAND
National Poisons Information Centre
Tel: +353 (01) 809 2566 (For healthcare professionals)
+353 (01) 809 2166 (For public; 8am - 10pm)
- **1.5 Reference Number:** SHP24-042660; SHAEC25000014701

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.
 - **Classification system:**
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Hydrocarbon oils
- **Hazard statements**
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 06.01.2025

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- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Determination of endocrine-disrupting properties** Not applicable

SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Description**
8020-83-5 Hydrocarbon oils
- **Remark:** This product contains substance Hydrocarbon oils (CAS No.8020-83-5) 100% by weight.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Never give anything by mouth to an unconscious person.
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Mouth respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Avoid contact with eyes.
Avoid contact with skin.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Prevent formation of aerosols.
Avoid contact with skin and eyes.
For the general occupational hygienic measures refer to section 8.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs:** Data not available
- **PNECs:** Data not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
See Section 7 for information about design of technical facilities.
- **Individual protection measures, such as personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Hand protection**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eyeface protection**



Tightly sealed goggles

· **Body protection:** Protective work clothing

· **Thermal hazards:** Not required for normal conditions of use.

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· Physical state	Liquid
· Colour:	Transparent
· Odour:	Weak odor
· Odour threshold:	Data not available
· Melting point/freezing point:	Data not available
· Boiling point or initial boiling point and boiling range	120-185 °C
· Flammability	Burn with an open flame.
· Lower and upper explosion limit	
· Lower:	Data not available
· Upper:	Data not available
· Flash point:	185 °C
· Auto-Ignition temperature:	Data not available
· Decomposition temperature:	Data not available
· pH	Data not available
· Viscosity:	
· Kinematic viscosity	Data not available
· Dynamic viscosity	Data not available
· Solubility	
· water:	Insoluble
· Partition coefficient n-octanol/water (log value)	Data not available
· Vapour pressure:	Data not available
· Density and/or relative density	
· Density:	Data not available
· Relative density	Data not available
· Relative vapour density:	Data not available
· Particle characteristics	Not applicable

· **9.2 Other information**

· Appearance:	
· Form:	Liquid

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· Information with regard to physical hazard classes	
· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable
· Flammable liquids	Not applicable
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidising liquids	Not applicable
· Oxidising solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable
· Other safety characteristics	Data not available

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** Data not available
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** May be fatal if swallowed and enters airways.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

Substance is not listed.

- **Other information** No further relevant information available.

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SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
- The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|---|
| · 14.1 UN number or ID number | |
| · ADR/RID/ADN, IMDG, IATA | Not applicable |
| · 14.2 UN proper shipping name | |
| · ADR/RID/ADN, IMDG, IATA | Not applicable |
| · 14.3 Transport hazard class(es) | |
| · ADR/RID/ADN, IMDG, IATA | |
| · Class | Not applicable |
| · Label | Not applicable |
| · 14.4 Packing group | |
| · ADR/RID/ADN, IMDG, IATA | Not applicable |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · 14.8 Transport/Additional information: | Not dangerous according to the above specifications |
| · UN "Model Regulation": | Not applicable |

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SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· **Named dangerous substances - ANNEX I** Substance is not listed.

· **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

Substance is not listed.

· **Regulation (EU) No 649/2012**

Substance is not listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Substance is not listed.

· **Regulation (EC) No 273/2004 on drug precursors**

Substance is not listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

· **REGULATION (EU) 2024/590 on substances that deplete the ozone layer**

Substance is not listed.

· Other regulations, limitations and prohibitive regulations

· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (7/11/2024)**

Substance is not listed.

· **REACH Regulation Annex XVII Restriction (19/9/2024)**

See Section 16 for information about restriction of use.

Substance is not listed.

· **REACH Regulation Annex XIV Authorization List (13/11/2023)**

Substance is not listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· *****

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

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· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Asp. Tox. 1: Aspiration hazard – Category 1

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