

MSDS 报告 Report

报告编号 : AGC09599221101UA03
Report No.

产品名称 : 可充电锂离子电芯
PRODUCT DESIGNATION : Rechargeable Lithium iron Cell

商 标 : N/A
BRAND NAME

样 品 型 号 : CKH 18500 1200mAh 3.7V
MODEL NAME

委 托 单 位 : 深圳市创科慧科技有限公司
APPLICANT : Shenzhen ChuangKeHui Technology Co., Ltd.

签 发 日 期 : 2023-01-01
DATE OF ISSUE

检 测 标 准 : GB/T16483-2008&ISO11014:2009
STANDARD(S)

报 告 版 本 : V1.0
REPORT VERSION



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报告修订记录REPORT REVISE RECORD:

Report Revise Record:				
报告修订记录:				
Report Version 版本号	Revise Time 修改次数	Issued Date 签发日期	Valid Version 有效性	Notes 备注
V1.0	/	2023-01-01	Valid 有效	Original report 原始报告

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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	可充电锂离子电芯 Rechargeable Lithium iron Cell	样品型号 Sample Model	CKH 18500 1200mAh 3.7V
收样日期 Sample Receiving Date	2023-01-01	规格 Rating	3.7V 1200mAh 4.44Wh
单位信息 Company information			
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 China		
生产单位 Manufacturer	肇庆市创科慧科技有限公司 Zhaoqing ChuangKeHui Technology Co., Ltd.		
生产单位地址 Manufacturer address	肇庆市高要区金利镇金淘工业园卓铭园区 Zhuoming Area, Jintao Industrial Park, Jinli Town, Gaoyao District, Zhaoqing City, P. R. China		
联系电话 Telephone	0755-23159867		
传真号码 Fax number	—		
邮政编码 Post code	518000		
应急电话 Emergency telephone	0755-23159867		
电子邮件 E-mail	2585386605@qq.com		

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第二部分 危险性概述

Section 2 - Hazards Identification

爆炸危险性 Explosive risk	该物品不属于爆炸危险品 This article does not belong to the explosion dangerous goods
易燃危险性 Flammable risk	该物品不属于易燃危险品 This article does not belong to the flammable material
氧化危险性 Oxidation risk	该物品不属于氧化危险品 This article does not belong to the oxidation of dangerous goods
毒害危险性 Toxic risk	该物品不属于毒害危险品 This article does not belong to the toxic dangerous goods
放射危险性 Radioactive risk	该物品不属于放射危险品 This article does not belong to the radiation of dangerous goods
腐蚀危险性 Mordant risk	该物品不属于腐蚀危险品 This article does not belong to the corrosion of dangerous goods
其他危险性 other risk	该物品为锂离子聚合物电池，瓦时率为 4.44Wh This article is Li-ion Polymer Battery, Watt hour rate 4.44Wh

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

化学名称 Chemical Composition	CAS No.	百分含量 Weight (%)
锰 Manganese	7439-96-5	10-40
镍 Ni(Nickel)	7440-02-0	
钴 Cobalt	7440-48-4	
石墨 Graphite	7782-42-5	10-30
铝 Al	7429-90-5	5-10
铜 Cu	7440-50-8	7-13
聚氯乙烯 PVC	9002-86-2	1-5

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化学名称 Chemical Composition	CAS No.	百分含量 Weight (%)
六氟磷酸锂 LiPF ₆	21324-40-3	10-30
镍 Ni(Nickel)	7440-02-0	1-5

注Note: CAS: 化学文摘社Chemical Abstracts Service (Division of the American Chemical Society).

EC#: 欧洲现有商业化学品目录European Inventory of Existing Commercial Chemical Substances

“—”: 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.

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. Lithium ion batteries 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: 请使用大量水, 干燥的化学粉末等合适的介质。如起火, 佩戴自主呼吸机和防护服。

Attention extinguishing method and protective measures: Please use plenty of water, dry chemical powder, etc. Wear self-contained respirator. Wear fully protective impervious suit.

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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。有关个人保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

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

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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: 当电池排气阀打开时, 应尽量使通风设备开至最大, 避免将打开排气阀的电芯局限在某一狭窄空间内。正常操作条件下, 呼吸保护是不必要的。

Respiratory Protection: In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.

通风条件: 正常使用条件下不需要。

Ventilation: Not necessary under conditions of normal use.

个体防护设备Personal Protection

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

有关基本物理及化学特性的信息 Information on basic physical and chemical properties	
外观 Appearance	蓝色 Blue
形状 Form	圆柱形 Cylindrical
气味 Odour	无味 Odorless

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.

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: 有毒烟雾, 并可能形成过氧化物。

Hazardous Combustible Products: toxic fumes and may form peroxides.

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

标志及症状: 无, 除非电池破裂。

Signs & symptoms: None, unless battery ruptures.

内部物质暴露的情况下, 蒸汽烟雾可能对眼睛和皮肤的刺激性。

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In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.
吸入：对肺有刺激性。

Inhalation: Lung irritant.

皮肤接触：对皮肤刺激性。

Skin contact: Skin irritant.

眼睛接触：对眼睛有刺激性。

Eye contact: Eye irritant.

食入：吞下中毒。

Ingestion: Poisoning if swallowed.

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

对哺乳动物的影响：目前未知。

Mammalian effects: None known at present.

生态毒性：目前未知。

Eco-toxicity: None known at present.

生物体内积累：慢慢地生物降解。

Bioaccumulation potential: Slowly Bio-degradable.

环境危害：目前没有已知的环境危害。

Environmental fate: None known environmental hazards at present.

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

联合国危险货物编号 UN Number	UN3480 UN3481
UN 运输专用名称 UN Proper shipping name	锂离子电池 Lithium Ion Batteries 锂离子电池与设备打包 Lithium Ion Batteries Packed With Equipment 锂离子电池装在设备中 Lithium Ion Batteries Contained In Equipment
运输危险等级 Transport hazard class(es)	9
包装组别	N/A

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Packing group	
海运污染物质 Marine pollutant	否 No

运输信息: 该锂电池 (CKH 18500 1200mAh 3.7V 3.7V 1200mAh) 已通过UN38.3测试。

Transport information: The Lithium Battery (CKH 18500 1200mAh 3.7V 3.7V 1200mAh) has passed the test UN38.3.

运输过程中请根据危险品规则DGR第64版包装规定965第IB部分, 966/967第II部分执行。

According to the Packing Instruction 965 section IB, 966/967 section II of IATA DGR 64th Edition for transportation.

运输过程中请根据海运危险品规则IMDG (40-20)特殊规定188, 或者《联合国危险货物运输的建议书规章范本》(22)执行, 该产品属于非限制货物。

According to the special provision 188 of IMDG (40-20) or the <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>> (22). The package is subjected to non-restricted goods.

更多关于锂离子电池运输, 测试, 包装等相关规定请参见网址<http://www.labelmaster.com>.

More information concerning shipping, testing, marking and packaging can be obtained from Label master at <http://www.labelmaster.com>.

电池相互隔开并防止短路, 泄露, 并装放在结实的容器内运输。

注: 该电池在运输过程中应防止剧烈振动、冲击或挤压, 防止日晒雨淋。具体细节请参照本文第七部分操作处置与储存。

Separate Lithium-ion batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

备注: 电池净重<5kg(空运, 电池与设备打包运输)。

Note: Batteries weight in the package<5kg(By air, Batteries packed with equipment).

备注: 电池净重<5kg(空运, 电池装在设备中运输)。

Note: Batteries weight in the package<5kg(By air, Batteries installed in equipment).

运输方式: 空运, 海运, 铁路, 公路。

Transport Fashion: By air, by sea, by railway, by road.

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

此MSDS符合法规 (EC) No. 1907/2006.

This Material Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006.

下列法律、法规、规章和标准对该物质或混合物的管理做了相应规定:

The following laws, regulations, rules and standards of the substance or mixture of management to do the corresponding provisions:

组成 Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
锰 Manganese	7439-96-5	列入 Listed	列入 Listed	DSL	列入 Listed
镍 Ni(Nickel)	7440-02-0	列入 Listed	列入 Listed	DSL	列入 Listed
钴 Cobalt	7440-48-4	列入 Listed	列入 Listed	DSL	列入 Listed
石墨 Graphite	7782-42-5	列入 Listed	列入 Listed	DSL	列入 Listed

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组成 Composition	CAS No.	IECSC	TSCA	DSL/NDSL	EINECS/ ELINCS/ NLP
铝 Al	7429-90-5	列入 Listed	列入 Listed	DSL	列入 Listed
铜 Cu	7440-50-8	列入 Listed	列入 Listed	DSL	列入 Listed
聚氯乙烯 PVC	9002-86-2	列入 Listed	列入 Listed	DSL	未列入 Not Listed
六氟磷酸锂 LiPF ₆	21324-40-3	列入 Listed	列入 Listed	NDSL	列入 Listed
镍 Ni(Nickel)	7440-02-0	列入 Listed	列入 Listed	DSL	列入 Listed

注: EINECS: 欧盟现有化学物质名录 (European Inventory of Existing Chemical Substances)

ELINCS: 欧洲已申报化学物质名录 (European List of Notified Chemical Substances)

DSL: 加拿大国内化学物质名录 (Canadian Domestic Chemical Substances)

IECSC: 中国现有化学物质名录 (Inventory of Existing Chemical Substances in China)

NDSL: 加拿大非国内化学物质名录 (Canadian non-domestic Chemical Substances)

NLP: 欧盟不被认为是聚合物的名录

TSCA: 美国TSCA物质名录 (Toxic Substances Control Act of USA)

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

注意 Declare to reader:

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主检人 Prepared by

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批准人 Approved by

康志伟

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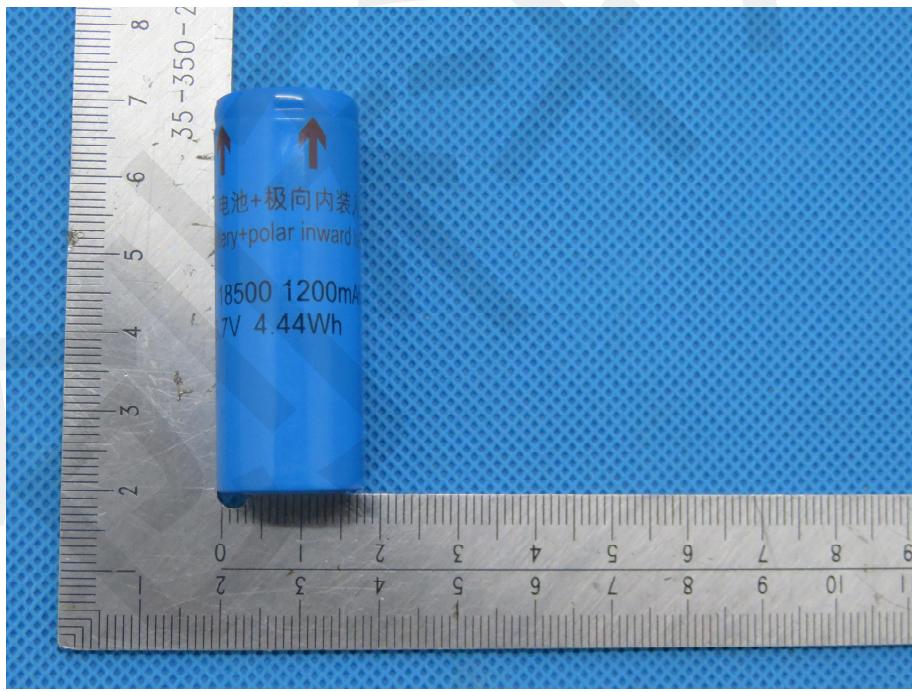
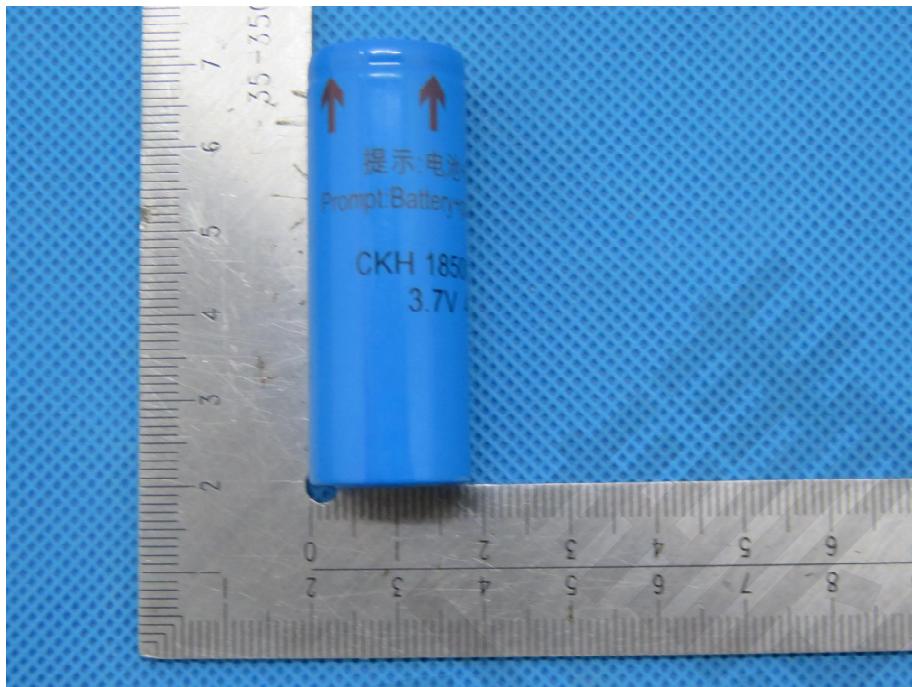
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SDS Service Summary

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 section 3 Composition/information on ingredients 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
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Trade name: Hair Clipper Lubricant Bottle

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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.

· Eye/face 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:

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 · Label	Not applicable 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.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

- **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

. *****

End of document

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