

材料安全数据表

Material Safety Data Sheet

本报告本年度有效
有效期至 2023 年 12 月 31 日

样品名称: 锂离子电池

Sample name: Li-ion Battery

样品型号: 602030

Sample model:

委托单位: 东莞市启飞电子科技有限公司

Applicant: Dongguan QiFei Electronic Technology Co, Ltd.

签发时间 Date of issue: 2023.01.05

Written by

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深圳天溯计量检测股份有限公司

Shenzhen Tiansu Calibration and Testing Co., Ltd.



* The MSDS is prepared based on the information provided by client. The contents and formats of this MSDS are revised as per client's request. 这份材料安全数据表是根据客户提供的信息编辑，其内容和格式按客户要求来修订。

第一部分-化学品及企业标识

Section 1-Chemical Product and Company Identification

产品名称 Product Name	锂离子电池 Li-ion Battery
型号 Model	602030
商标 Trade Mark	--
额定参数 Ratings	3.7V/300mAh/1.11Wh
重量 Weight	6.2g
制造商 Manufacturer	东莞市启飞电子科技有限公司 Dongguan QiFei Electronic Technology Co, Ltd.
制造商地址 Manufacturer Address	东莞市清溪镇三中村金腰路62号B栋五楼501厂房 501 Building, 5th Floor, Building B, No.62 Jinyao Road, SanzhongVillage, Qingxi Town, Dongguan City. China
应急电话 Emergency Telephone	+86-769-2231 8867
传真 Fax	+86-769-2231 8867

第二部分-成分信息

Section 2- Composition Information

化学成分 Chemical Composition	化学式 Chemical Formula	CAS号 CAS No.	重量含量 (%) Weight (%)
钴酸锂 Lithium cobaltate	LiCoO ₂	12190-79-3	15 - 40
石墨 Graphite	C	7782-42-5	10 - 30
六氟磷酸锂 Lithium hexafluorophosphate	LiPF ₆	21324-40-3	10 - 30
铜箔 Copper	Cu	7440-50-8	7-13



铝箔 Aluminium	Al	7429-90-5	5-10
镍 Nickel	Ni	7440-02-0	1-5

第三部分-危险性概述

Section 3- Hazards Identification

紧急情况概述 Emergency overview	不适用 N/A
标签元素 Label elements:	
危险标签图 Hazard pictogram(s)	不适用 Not Applicable
提示语 Signal word	不适用 Not Applicable
危险声明 Hazard statement(s)	不适用 Not Applicable
预防声明 Precautionary statement(s):	
预防 Prevention	不适用 Not Applicable
反应 Response	不适用 Not Applicable
废弃处理 Disposal	不适用 Not Applicable
环境危害 Environmental hazards:	无相关信息 No relevant information
重要症状 Important symptoms:	见第11部分更多信息 See section 11 for more information

第四部分-急救措施

Section 4- First Aid Measures

眼睛接触 Eye contact	万一接触，立即用大量的清水冲洗至少15分钟，翻起上下眼睑，直到化学的残留物消失为止，迅速就医。 Flush eyes with plenty of water for least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
皮肤接触 Skin contact	万一接触，用大量的水冲洗至少15分钟，同时除去污染的衣物和鞋子，迅速就医。 Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.
吸入 Inhalation	立即从暴露处移至空气清新处，如果呼吸困难给予输氧，立即就医。 Remove from exposure and move to fresh air immediately. Use oxygen if available.
摄入 Ingestion	饮用两杯牛奶或水，如果当事人仍然清晰可以采取催吐的方法，并且立即就医。 Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.



第五部分-消防措施

Section 5- Fire Fighting Measures

燃点 Flash Point	不适用 N/A
自燃温度 Auto-Ignition Temperature	不适用 N/A
灭火介质 Extinguishing Media	水, 二氧化碳 H ₂ O, CO ₂
特殊灭火程序 Special Fire-Fighting Procedures	自给式呼吸器 Self-contained breathing apparatus
异常火灾或爆炸 Unusual Fire and Explosion Hazards	当电芯暴露于过热的环境中时, 安全阀可能会打开 Cell may vent when subjected to excessive heat-exposing battery contents
燃烧产生的危险物品 Hazardous Combustion Products	一氧化碳, 二氧化碳, 锂氧化物烟气 Carbon monoxide, carbon dioxide, lithium oxide fumes.

第六部分-泄露应急处理

Section 6- Accidental Release Measures

个人预防措施、保护设备和应急程序:

如果电池被泄露, 让人员离开该区域直到烟雾消散。提供最大限度的通风, 清除有害气体。首选的反应就是离开这个地区并消散气体, 避免皮肤和眼睛接触或吸入气体。用吸收剂清除溢出的液体然后焚烧。如果电池泄漏发生时, 液体可以用砂、泥土或其他惰性物质来吸收, 污染区域应该保持通风。

Personal precautions, protective equipment and emergency procedures:

If the battery is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the vapors to dissipate, Avoid skin and eyes contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerated. If leakage of the battery happens, liquid could be absorbed by using sand, earth or other inert substance and contaminated area should be ventilated meantime.

环境预防措施:

不允许产品到达排水系统或任何水源。
如果渗透进排水系统或任何水源, 通知相应的部门。
不允许进入下水道/表面或地下水。

Environment precautions:

Do not allow product to reach sewage system or any water source.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

抑制和清理材料的方法:

如果电池外壳被拆除, 少量电解液可能会泄漏。收集所有材料放进一个塑料容器。根据当地的法律法规来处置, 避免可溶物质进入大地、下水道或水源。

Methods and material for containment and cleaning up:

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic



lined container. Dispose off according to the local law and rules, Avoid leached substances to get into the earth, canalization or waters.

第七部分-操作处置和储存

Section 7- Handling and Storage

<p>操作处置 Handling</p>	<p>禁止打开、毁坏或焚烧电池，因为电池有可能在这些处理过程中发生爆炸、破裂或泄露等事故。 禁止将电池短路、过充、强制放电或扔入火中。 禁止挤压或刺穿电池，或将电池浸入溶液中。 The battery should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container. Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery, or immerse in liquids.</p>
<p>储存 Storage</p>	<p>禁止物理或电滥用，禁止高温储存，最好将电池储存在阴凉、干燥、通风及温度变化较小的环境中。 禁止将电池接触加热设备，或将电池长时间直接暴露在阳光中。 Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.</p>
<p>其他要注意的防范措施 Other Precautions</p>	<p>拆解、挤压、直接放入火中或高温条件下，电池可能发生爆炸和燃烧。 禁止短接或将电池正负极错误的安装在设备中。 The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.</p>

第八部分-接触控制和个体防护

Section 8- Exposure Controls/Personal Protection

<p>设计控制 Engineering Controls</p>	<p>设计局部排气通风或其它设计来控制粉尘、雾、烟雾和气体。 Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.</p>
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个人防护装备 Personal Protective Equipment	呼吸防护: 在正常情况下不需要。 皮肤和身体防护: 在正常情况下不需要, 如果处理一个裂开的或泄漏的电池需要穿戴适当的防护服和手套。 手保护: 如果处理一个裂开的或泄漏的电池需要戴适当手套。 眼睛保护: 在正常情况下不需要, 如果处理一个裂开的或泄漏的电池需要戴上安全眼镜。 Respiratory Protection: Not necessary under normal conditions. Skin and body Protection: Not necessary under normal conditions, Wear suitable protective clothing and gloves if handling an open or leaking battery. Hand protection: Wear suitable gloves if handling an open or leaking battery. Eye Protection: Not necessary under normal conditions, Wear safety glasses if handling an open or leaking battery.
其它防护装备 Other Protective Equipment	在工作区域应该有一个立即可以使用的安全淋浴和喷水洗眼器。 Have a safety shower and eye wash fountain readily available in the immediate work area.
卫生措施 Hygiene Measures	在工作区域不得进食, 饮水或吸烟。 Do not eat, drink, or smoke in work area. Maintain good housekeeping.
第九部分-物理和化学特性 Section 9- Physical and Chemical Properties	
颜色 Color	银色 Silver
气味 Odour	不适用 Not Applicable
酸碱度 pH	不适用 Not Applicable
熔点/凝固点 Melting point/freezing point	不适用 Not Applicable
沸点、沸点范围: Boiling Point and Boiling range	不适用 Not Applicable
易燃度 Flash Point	不适用 Not Applicable
自燃或爆炸的上、下极限 Upper/lower flammability or explosive limits	不适用 Not Applicable
蒸汽压 Vapor Pressure	不适用 Not Applicable



蒸汽密度 Vapor Density	不适用 Not Applicable
相对密度 Relative density	不适用 Not Applicable
水溶性 Solubility in Water	不适用 Not Applicable
自燃温度 Auto-ignition temperature	不适用 Not Applicable
分解温度 Decomposition temperature	不适用 Not Applicable
蒸发速率 Evaporation rate	不适用 Not Applicable
易燃性(土壤、天然气) Flammability (soil, gas)	不适用 Not Applicable
粘性 Viscosity	不适用 Not Applicable
第十部分 稳定性和反应活性 Section 10- Stability and reactivity	
稳定性 Stability	产品在第七部分所述的条件下稳定 The product is stable under conditions described Section 7
应避免的条件 Conditions to Avoid	加热 70°C 以上或焚烧、变形、毁坏、粉碎、拆卸、过充电、短路，长时间暴露在潮湿的条件下。 Heat above 70°C or incinerate. Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions.
不兼容的材料 Incompatible Materials	氧化剂，酸，碱。 Oxidizing agents, acid, base.
危险分解物 Hazardous Decomposition Products	一氧化碳、二氧化碳、氧化锂烟雾。 Carbon monoxide, carbon dioxide, lithium oxide fumes.
危险反应的可能性 Possibility of Hazardous Reaction	不适用 Not Applicable
第十一部分-毒理学资料 Section 11 - Toxicological Information	
刺激	如果电芯的外壳受到机械、热或电的滥用到达一定程度，会发生刺激的风险。



Irritation	如果发生这种情况，可能会刺激皮肤、眼睛和呼吸道。 Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.
致过敏 Sensitization	不适用 Not Applicable
影响神经系统 Neurological Effects	不适用 Not Applicable
致畸 Teratogenicity	不适用 Not Applicable
再生毒性 Reproductive Toxicity	不适用 Not Applicable
诱变(遗传效应) Mutagenicity (Genetic Effects)	不适用 Not Applicable
附带材料毒理性 Toxicologically Synergistic Materials	不适用 Not Applicable

第十二部分-生态学资料

Section 12- Ecological Information

生态毒性 Ecological Toxicity	不适用 Not Applicable
在土壤中的流动性 Mobility in soil	不适用 Not Applicable
持久性和分解性 Persistence and Degradability	不适用 Not Applicable
生物聚积 Bioaccumulation potential	不适用 Not Applicable
其他不利影响 Other Adverse Effects	不适用 Not Applicable

第十三部分-废弃处置



Section 13- Disposal Considerations

产品废弃处理建议 Product disposal recommendation	遵守当地、州和联邦法律和法规。 Observe local, state and federal laws and regulations.
包装处理建议 Packaging disposal recommendation	废弃处理必须根据当地法规 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 Label for conveyance	锂电池标签 Lithium Battery Label
UN 编号 UN Number	UN 3480 或 UN 3481 UN 3480 or UN 3481
运输风险类别 Transport hazard class(es)	9
包装等级 Packing group	---
海洋污染物 Marine pollutant	无污染 No
联合国运输专用名称 UN Proper shipping name	锂离子电池(包括锂离子聚合物电池) Lithium ion Batteries (Including lithium ion polymer batteries) 锂离子电池和设备包装在一起(包括锂离子聚合物电池) Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) 设备里内含锂离子电池(包括锂离子聚合物电池) Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries)
ICAO/IATA	可根据国际民用航空组织(ICAO), TI 或国际航空协会(IATA) DGR 64 版本包装说明 965 第 IB 节规定或 966~967 第 II 节规定进行空运 Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR 64 th Packing Instructions Section IB of 965 or Section II of 966~967 appropriately.



IMDG CODE	《国际海运危险货物规则》特殊规定 188 IMDG CODE (Amdt 41-22) International Maritime Dangerous Goods Code under Special Provision 188 IMDG CODE (Amdt 41-22)
ADR	《国际危险货物道路运输欧洲协定》(ADR) 根据特殊规定 188 European Agreement concerning the International Carriage of Dangerous Goods by Road under Special Provision 188
RID	《国际危险货物铁路运输欧洲协定》(RID) 根据特殊规定 188 Regulations concerning the International Carriage of Dangerous Goods by Rail under Special Provision 188

危险品规例规定，运输前，每一个电池设计须通过联合国试验和标准手册38.3节所载的测试。

The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of the UN Manual of Tests and Criteria prior to being offered for transport.

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》
- 《Recommendation 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》
- 《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)
- 《资源保护及恢复法案》
- 《Resource Conservation and Recovery Act》(RCRA)
- 《国际危险货物道路运输欧洲协定》
- 《European Agreement concerning the International Carriage of Dangerous》
- 《国际危险货物铁路运输欧洲协定》
- 《Regulations concerning the International Carriage of Dangerous》

根据所有联邦、州和地方法律。

In according with all Federal, State and local laws.



Section 16- Other Information

上面的信息被认为是准确代表了目前最好的信息提供给我们。然而,飞机没有对商品性能保证或任何其他保证,包括明示或暗示,对这类信息的使用我们不承担责任。用户应作出自己的调查,以确定是否适合其特定用途的信息。虽然在此处所包含的数据的准备已经采取了合理的预防措施,这是仅为你提供提供的信息、考虑和调查。这个化学品安全技术说明书为本产品提供了安全操作指南和使用指南,它并不能对所有可能发生的情况提供建议,因此,您特殊使用该产品应先进进行评估,以确定是否需要额外的预防措施。

The information above is believed to be accurate and represents the best information currently available to us. However, concorde makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

-- End of Report --

-- 报告结束 --



Section 1 – Identification

Product Name:	Teeth Whitening Gel-12%PAP	Manufacturer: Nanchang Dental Bright Technology Co., Ltd
		Building 182, Nanchang Jiahai Industrial Park, No.2799 Tianxiang Blvd, Gaoxin Dist., Nanchang, Jiangxi Prov., China 330096
Active Ingredient:	Phthalimidoperoxycaproic Acid 12.0% Potassium Citrate 3.0% Hydroxyapatite 1.0%	Information Contacts: (00 86) 791 88252982
		Emergency Phone Numbers: China (00 86) 17779115983

Family: Teeth Whitening Gel**Product Use:** Professional Dental Whitening Gel**Section 2 – Hazards Identification****2.1 Classification of the substance or mixture:****Classification according to Regulation (EC) No. 1272/2008**

Acute toxicity (oral), category 4, H302

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements**Labeling according Regulation (EC) No. 1272/2008**

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H315

Causes skin irritation

H319

Causes serious eye irritation.

Precautionary statement(s)

P102

Keep out of reach of children.

P264

Wash hands thoroughly after handling.

P301+312

If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+351+338

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

None

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 3 – Composition/Information on Ingredients

Chemical Name	INCI Name	CAS	EINECS	Content
Glycerol	Glycerin	56-81-5	200-289-5	36.0%
Water	Aqua	7732-18-5	231-791-2	29.2%
PAP	Phthalimidoperoxycaproic Acid	128275-31-0	410-850-8-	12.0%
Polyvinylpyrrolidone	PVP	9003-39-8	-	10.0%

Ammonium Acryloyldimethyltaurate/VP Copolymer	Ammonium Acryloyldimethyltaurate/VP Copolymer	--	--	3.0%
Potassium Hydroxide	Potassium Hydroxide	1310-58-3	215-181-3	3.0%
Potassium Citrate	Potassium Citrate	866-84-2	212-755-5	3.0%
Hydroxyapatite	Hydroxyapatite	1306-06-5	215-145-7	1.0%
Peppermint Oil	Mentha Piperita (Peppermint) Oil	8006-90-4	--	1.0%
Mica	Mica	12001-26-2	310-127-6	1.0%
Titanium Dioxide	CI 77891	13463-67-7	236-675-5	0.5%
Saccharin Sodium	Saccharin Sodium	6155-57-3	204-886-1	0.2%
Piroctone Olamine	Piroctone Olamine	68890-66-4	272-574-2	0.1%

(Items in parenthesis relate to 1999/45/EC)

Phthalimidoperoxycaproic Acid: Danger Symbol - GHS05(C) Hazard Statement- H318 (R41), H401 (R51) Precautionary Statement-P273 (S61), P280 (S36/37/39), P305+P351+P338+P310 (S26), P501 (S56).

Potassium Nitrate: Danger symbol –GHS03 (O) Hazard Statement –H272 (R8) Precautionary Statement –P220 (S17)

Potassium Hydroxide: Danger Symbol – GHS07 (Xi), GHS05 (C) Hazard Statement –H290 (N/A), H302 (R22), H314 (R35/41), H402 (R52) Precautionary Statement –P234 (S49), P260 (S22/23), P264 (S28), P270 (S20/21), P273 (S61), P280 (S36/37/39), P301+312+330 (S45/64), P301+330+331 (S64/62), P303+361+353 (S27/28), P304+340+310 (S63/45), P305+351+338+310 (S26), P363 (S27/28), P390 (S57).

Piroctone Olamine: Danger Symbol - GHS05(C) Hazard Statement- H315 (R38), H318 (R41), H412 (R52/53) Precautionary Statement- P264 (S28), P273 (S61), P280 (S36/37/39), P305+351+338+310 (S26), P501 (S56).

See Section 16 for Hazard and Precautionary Statement Key.

Section 4 – First Aid Measures

First Aid for Eye	Immediately flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.
First Aid for Skin	Wash thoroughly with soap and water. Remove contaminated clothing. Get medical help if discomfort persists. People with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.
First Aid for Ingestion	If greater than normal dose is swallowed, do not induce vomiting. Drink large quantity of water or milk. Seek medical attention.
First Aid for Inhalation	Move to fresh air. If having breathing difficulty, give oxygen. Seek medical attention if discomfort persists.

Section 5 – Fire Fighting Measures

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
N/A	N/A	N/A

Method:

Extinguishing Media:	Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray may also reduce fumes and irritating gases.
Fire Fighting Instructions:	General: Evacuate all personnel. Use self-contained breathing apparatus (SCBA) and full protective clothing to prevent exposure when the product is involved in a fire.
Unusual Hazards:	Under fire conditions this product may emit toxic and / or irritating fumes and gases which aid combustion.

Section 6 – Accidental Release Measures

Spill or Release Procedures	Minor spills – Clean up immediately, and wear appropriate personal protective equipment and clothing to minimize exposure. Place inert absorbent material onto spillage. Collect the material and place into a suitable labeled container. Clean contaminated area with soap and water. Major spills – Clear area of personnel. Restrict access to area. Wear appropriate personal protective equipment. Make sure area is well ventilated prior to cleanup. Place inert absorbent material onto spillage. Collect the material and place into a suitable labeled container. Mop / wipe area with soap and water. Do not allow spill to reach waterway, drains, and sewers. See section 8 & section 12.
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Section 7 – Handling and Storage

Handling	Limit all unnecessary personal contact; avoid accidental contact; wear appropriate PPE.
Storage	Store in a cool, well ventilated area away from heat, sparks and flame. Keep containers closed when not in use. Keep in original container provided by manufacturer. Avoid sunlight. Store according to local legislation. Ideally, keep refrigerated.
Explosion Hazard	None.

Section 8 – Exposure Controls / Personal Protection

Engineering Controls	General exhaust is adequate under normal operating conditions.
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Personal Protective Equipment

General	To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product.
Eye/ Face Protection	Operator should wear safety glasses with side shields or chemical goggle. Ensure eye bath is on hand.
Skin Protection	Operator should use impermeable clothing to prevent ANY skin contact with this product, such as gloves, apron, boots, or cotton overalls.
Respiratory Protection	In case of insufficient ventilation (lack of engineering controls), wear suitable respiratory equipment.

Section 9 – Physical and Chemical Properties

Appearance	Odor & Odor Threshold	pH	Specific Gravity	Viscosity	% Volatile		
Gel	Minty	6-9	(H2O = 1): N/A	N/A	N/A		
Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (20°C)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flash Point (°F/°C)		Flammable Limit (vol%)		Auto-ignition Temperature (vol%)			
N/A		N/A		N/A			

Section 10 – Stability and Reactivity

Stability: Stable under normal conditions	Incompatibility (Materials to Avoid): Keep away from combustible liquids; strong acids / bases
Hazardous Decomposition Products: Release of toxic / irritating fumes which are capable of supporting combustion	Hazardous Polymerization: Will not occur
Conditions to Avoid: Heat, incompatible materials, and sunlight	

Section 11 – Toxicological Information

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation – skin	Irritation – Eye
N/A	N/A	N/A	N/A	N/A
Sensitization		Mutagenicity		Sub-chronic Toxicity
N/A		N/A		N/A

Section 12 – Ecological Information**Ecotoxicological Information**

Acute Toxicity to Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
N/A	N/A	N/A	N/A	N/A

Chemical Fate Information

Biodegradability	N/A
Chemical Oxygen Demand	N/A

Section 13 – Disposal Considerations

Dispose of in compliance with governmental regulation (state and federal). Repeatedly rinse empty containers with water before disposing in landfill.

Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

Section 14 – Transport Information

14.1 UN number	ADR / RID: N/A	IMDG: N/A	IATA: N/A
14.2 UN proper shipping name	ADR / RID: None	IMDG: None	IATA: None
14.3 Transport hazard class(es)	ADR / RID: N/A	IMDG: N/A	IATA: N/A
14.4 Packaging group	ADR / RID: N/A	IMDG: N/A	IATA: N/A
14.5 Environmental hazards	ADR / RID: no	IMDG Marine pollutant: no	IATA: no
14.6 Special Precautions for user	NO data available		

Transport in according with the Packing Instruction of IATA DGR 63rd Edition.

Section 15 – Regulatory Information**US Federal Regulations**

Clean Air Act: HAP/ODS	This product contains the following HAP's or ODS: <ul style="list-style-type: none"> None
Clean Water Act: Priority Pollutant	This product contains the following chemicals listed under the U. S. Clean Water Act Priority Pollutant and Hazardous Substance List: <ul style="list-style-type: none"> None
FDA: Food Packaging Status	This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food-packaging additive.
Occupational Safety and Health Act	This product is considered to be hazardous under the OSHA Hazard Communication Standard. It's hazards are: <ul style="list-style-type: none"> None
RCRA	This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261). <ul style="list-style-type: none"> None
SARA Title III: Section 302 (RQ)	This product contains no chemicals regulated under Section 302 as extremely hazardous substances.
SARA Title III: Section 302 (TPQ)	This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List): <ul style="list-style-type: none"> None
SARA Title III: Section 311-312:	This product is considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). It's hazards are: <ul style="list-style-type: none"> None
SARA Title III: Section 313:	This product contains the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: <ul style="list-style-type: none"> None
TSCA Section 8(b): Inventory:	This product does contain chemicals listed on the TSCA inventory or otherwise complies with TSCA pre-manufacture notification requirements.

TSCA Significant New Use Rule:	<ul style="list-style-type: none"> • None None of the chemicals in this material have a SNUR under TSCA.
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International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)	<ul style="list-style-type: none"> • None
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Section 16 – Other Information

EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):

(items in parenthesis relate to 1999/45/EC)

Danger Symbols:
 GHS03 (O) – Oxidizer. GHS05 (C) – Corrosive. GHS07 (Xi) – Warning / Irritant. GHS09 (N) – Dangerous for the environment.

Hazard Statement:
H272 (R8) – May intensify fire; oxidizer.
H290 (N/A) – May be corrosive to metals.
H302 (R22), Harmful if swallowed.
H314 (R35/41), Causes severe skin burns and eye damage.
H315 (R38), Causes skin irritation.
H318 (R41) Causes serious eye damage.
H319 (R36), Causes serious eye irritation.
H401 (R51), Toxic to aquatic life.
H402 (R52), Harmful to aquatic life.
H412 (R52/53), Harmful to aquatic life with long lasting effects.

Precautionary Statement:
P102 (S2), Keep out of reach of children.
P220 (S17), Keep/store away from clothing/ /combustible materials.
P260 (S22/23), Do not breathe dust/fume/gas/mist/vapors/spray.
P261 (S22/23), Avoid breathing dust/fume/gas mist/vapor sprays.
P264 (S28), Wash hands thoroughly after handling.
P270 (S20/21), Do not eat, drink or smoke when using this product.
P273 (S61), Avoid release to the environment.
P280 (S36/37/39), Wear protective gloves/clothing/eye protection/face protection.
P301+312 (S45), IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+312+330 (S45/64), IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P301+330+331 (S64/62), IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353(S27/28), Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340+310 (S63/45), Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/ doctor.
P305+351+338 (S26), Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P305+351+338+310 (S26), Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/ doctor.
P363 (S27/28), Wash contaminated clothing before reuse.
P390 (S57), Absorb spillage to prevent material damage.
P501 (S56), Dispose of contents / container properly.

Hazard Rating System (Pictograms)

<p>NFPA:</p> <p>Health → 1 ← Flammability 1 ← Reactivity 1</p>	<p>HMIS:</p> <p>1 Health 1 Flammability 1 Reactivity</p>
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