



SAFETY DATA SHEET

Dual Power LED Lantern

SDS EXEMPTION NOTICE:

The battery powered products, and the batteries they contain, covered in this document are exempt articles and are not subject to the OSHA Hazard Communication Standard requirement. This sheet is provided as a service to our customers.

Safety Data Sheets (SDS) are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR Subpart 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article." OSHA has defined "article" as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

Because all of our battery powered products and the batteries they contain are defined as "articles", they are exempt from the requirements of the Hazard Communication Standard; hence an OSHA SDS in accordance with the Global Harmonized System (GHS) is not required.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Dual Power LED Lantern

Other means of identification

Synonyms DURO™ 30-Day Dual Power LED Lantern; Item No. 20-12405

Recommended use of the chemical and restrictions on use

Recommended Use Portable lighting for outdoor, camping, and emergency use.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name UST Brands
Supplier Address 7720 Philips Highway
Jacksonville
Florida
32256
USA
Supplier Phone Number Phone:904-786-0033
Fax:904-786-0890
Supplier Email sales@ustbrands.com

Emergency Response Information (ERI) telephone number

ERI Provider: INFOTRAC USA or Canada: 1-800-535-5053 International: 001-352-323-3500

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2. HAZARDS IDENTIFICATION

Lithium Ion Batteries Contained in Equipment, UN3481

CAUTION: LITHIUM BATTERIES INSIDE. This equipment contains a battery pack containing a Rechargeable Lithium Ion battery. The battery pack can be removed or replaced in accordance with the manufacturer's instructions provided with the equipment. Do not damage or mishandle the packages. If package is damaged, flammability hazard may exist; equipment must be quarantined, inspected, and repacked.

CAUTION: Batteries inside the equipment can explode or leak if heated, disassembled, shorted, recharged, exposed to fire or high temperature or inserted incorrectly. Do not remove the battery from the battery pack. Do not carry the battery pack loose in your pocket or purse. Keep this equipment and the battery pack contained inside away from children. If swallowed, consult a physician at once. Under certain misuse conditions and by abusively opening the battery pack or battery inside, exposed lithium can react with water or moisture in the air causing potential thermal burns or fire.

Physical Appearance: The equipment contains a battery pack. The battery pack and its contents present the hazard. The battery pack is installed in the equipment and can be removed or replaced in accordance with the manufacturer's instructions provided with the equipment.

Battery Description:

DURO™ 30-Day Dual Power LED Lantern; Item No. 20-12405

Battery Pack: Containing Battery Model 204545 (504545-4P)

Battery Type: Polymer Lithium Ion

Typical Capacity: 4000 mAh

Nominal Voltage: 3.7 V

Watt-hours (Wh) = 4000 mAh x (1 A/1000 mA) x 3.7 V = 14.8 Wh

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

3. COMPOSITION/INFORMATION ON INGREDIENTS

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

4. FIRST AID MEASURES

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

5. FIRE-FIGHTING MEASURES

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

6. ACCIDENTAL RELEASE MEASURES

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.



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7. HANDLING AND STORAGE

WARNING:

Do not look directly into LED for more than a few seconds. Do not allow children to use LED light unless under supervision of an adult.

CAUTION:

Do not immerse in water.

CONTAINS RECHARGEABLE LITHIUM-ION BATTERY.

Do not crush, puncture, disassemble, heat above 120°F (50°C), or incinerate. Do not short circuit or modify. Misuse can cause fire, explosion, and personal injury. When battery pack is no longer able to be recharged, replace with the same model battery pack having the same voltage and capacity. Dispose of old battery pack or recycle properly in accordance with local regulations.

USE ONLY AS DIRECTED.

KEEP OUT OF REACH OF CHILDREN.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

9. PHYSICAL AND CHEMICAL PROPERTIES

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

10. STABILITY AND REACTIVITY

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

11. TOXICOLOGICAL INFORMATION

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

12. ECOLOGICAL INFORMATION

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

13. DISPOSAL CONSIDERATIONS

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

14. TRANSPORT INFORMATION

Lithium Ion Batteries Contained in Equipment, UN3481

Transportation in the United States (Reference DOT Regulation 49 CFR parts 171-178)

Lithium Ion Batteries Contained in Equipment: UN3481. When packaged and labeled in compliance with 49CFR173.185(c) as amended Mar 30/2017 (<20 Wh for lithium ion cell; <100 Wh for lithium ion battery), these items are otherwise "excepted" from the requirements of the regulations.

Transportation Internationally (Reference IATA Dangerous Goods Regulations)

Lithium Ion Batteries Contained in Equipment: UN3481, Packing Instruction 967, Section II (<20 Wh for lithium ion cell; <100 Wh for lithium ion battery). This regulation applies to "small" lithium batteries contained in equipment that when packaged and labeled as described in Packing Instruction 967 are otherwise "excepted" from the requirements of the regulations.

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The transportation of lithium ion batteries contained in equipment is regulated as UN3481 by US DOT (road), IATA (air), and IMO (marine). However, the listed lithium ion batteries contained in equipment are not subject to the other provisions of the regulations as long as they are packaged and labeled in accordance with the regulations.

Your selected air, truck, rail or sea carrier may have additional documentation or pre-authorization requirements. Check with your selected carrier before shipping.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

15. REGULATORY INFORMATION

California Proposition 65

WARNING: This product can expose you to chemicals including Di(2-ethylhexyl)phthalate (DEHP), which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

16. OTHER INFORMATION

REFER TO BATTERY MANUFACTURER'S MSDS, SDS, AND/OR PRODUCT INFORMATION SHEET ATTACHED.

Disclaimer of Liability: Since conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information contained in this SDS is believed to be true and accurate. All statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the product, or the results to be obtained from the use thereof. Compliance with all federal, state, and local laws and regulations remains the responsibility of the user.

User Responsibility: This SDS cannot cover all possible situations which the distributor, retailer, or end user may experience during transport, storage, processing, or use. The user should examine each aspect of his operation and determine if additional precautions should be taken. All health and safety information contained in this SDS should be provided to the user's employees or customers. It is the user's responsibility to use this information to develop appropriate work practice guidelines and employee training programs for his operation.

End of Safety Data Sheet

材料安全数据表

Material Safety Data Sheet

1. Identification of the product and supplier (产品和厂商信息)	
产品名称 Name of goods	锂离子电池 Li-ion Battery
产品型号 Type/Mode	204545 (504545-4P) 3.7V 4000mAh 14.8Wh
制造商 Manufacturer	深圳市泰量电子有限公司 Shenzhen Tenerg Electronic Co., Ltd.
制造商地址 Manufacturer address	广东省深圳市龙华新区民治大道 58 号恒润大厦 638 室 Room 638, Henrun Building, No. 58, Minzhi Road, Longhua District, Shenzhen, Guangdong, China.
生产厂 Factory	东莞市海量能源科技有限公司 Dongguan Hilion Battery Co., Ltd.
生产厂地址 Factory address	广东省东莞市塘厦镇科苑诚信息产业园鹿乙路 A16 号 C13 C13 Building, No. A16, Luyi Road. Keyuaricheng IT Industry Park, TangxiaTown, Dongguan, Guangdong, China.
鉴定依据 Inspection according to	EEC Directive 93/112/EC 联合国《关于危险品货物运输的建议书》 UN "Recommendations on the TRANSPORT OF DANGEROUS GOODS"
紧急联系电话 Eergency telephone call	+86-755 33231651
签发日期/Issue date :2018-01-02	

Approved by:

Reviewed by:

Tested by:

批准: 袁平秋审核: 季东编制: 唐波

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2. Composition/Information on Ingredient (成分/组成信息)

危险成分 (化学名称) Hazardous Ingredients (Chemical Name)	含量及含量百分比 (%) Concentration or concentration ranges (%)	CAS 编号 CAS Number
钴酸锂/Lithium Cobalt Oxide	37.82%	12190-79-3
聚偏氟乙烯/Polyvinylidene (PVDF)	1.46%	24937-79-9
铝/Aluminium (Al)	9.03%	7429-90-5
石墨/Graphite	16.48%	7782-42-5
丁苯橡胶/Styrene-Butadiene Rubber (SBR)	0.39%	61789-96-6
羧甲基纤维/Carboxymethylcellulose	0.31%	9000-11-7
铜/Copper (Cu)	9.74%	7440-50-8
镍/Nickel (Ni)	1.08%	7440-02-0
六氟磷酸锂/Lithium Hexafluorophosphate	18.56%	21324-40-3
聚乙烯/Polyethylene	3.03%	9002-88-4
尼龙/Nylon	0.8%	24937-16-4
聚丙烯/Polypropylene	1.3%	9003-07-0

3. Hazards Identification (主要危险性鉴定)

爆炸危险性 Explosive risk	该物品不属于爆炸物品 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 Oxidtion 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	该物品为锂离子电池, 瓦时率为 14.8Wh This article is Li-ion Battery, Watt hour rate 14.8Wh

4. First aid measures (急救措施)

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Eye

Flush eye with plenty of water for at least 15 minutes ,occasionally lifting the upper and lower eyelids.Get medical aid.

Skin

Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes .Get medical aid.

Inhalation

Remove from exposure and move to fresh air immediately.Use oxygen if available

Ingestion

Give at least 2 glasses of milk or water .Induce vomiting unless patient is unconscious ,Call a physician.

5. Fire-fighting measures (消防措施)

Flash Point:N/A.

Auto-Ignition Temperature:N/A .

Extinguishing Media:Water, CO2.

Special Fire-Fighting Procedures

Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Cell may vent when subjected to excessive heat -exposing battery contents.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, lithium oxide fumes.

6. Accidental release measures (泄露应急处理)

Steps to be Taken in case Material is Released or spilled

If the battery material is released , remove personnel from area until fumes dissipate .Provide maximum ventilation to clear out hazardous gases .Wipe it up with a cloth, ,and dispose of it in a plastic bag and put into a steel can .The preferred response is to leave the area and allow the battery to cool and vapors to dissipate.Provide maximum ventilation.Avoid skin and eye contact or inhalation of vapors.Remove spilled liquid with absorbent and incinerate.

Waste Disposal Method

It is recommended to discharge the battery to the end, to use up the metal lithium inside the battery, and to bury the discharged battery in soil.

7. Handling and storage (操作处置和储存)

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.

Precautions to be taken in handling and storing

Avoid mechanical or electrical abuse .Storage preferably in cool, dry and ventilated area, which is subject to

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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.

Other Precautions

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.

8. Exposure controls/personal protection (接触控制/个人防护)

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.

Ventilation

Not necessary under conditions of normal use.

Other protective Clothing or Equipment

Not necessary under conditions of normal use.

Personal Protection is recommended for venting battery

Respiratory protection, protective Gloves, Protective Clothing and safety glass with side shields.

9. Physical and chemical properties (物理和化学特征)

Appearance: Prismatic shape

Odour: If leaking, smells of medical ether.

pH: Not applicable as supplied.

Flash Point: Not applicable unless individual components exposed.

Flammability: Not applicable unless individual components exposed,

Relative density: Not applicable unless individual components exposed,

Solubility (water): Not applicable unless individual components exposed,

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

10. Stability and reactivity (稳定性和反应活性)

Stability: Product is stable under conditions described in Section 7.

Conditions to avoid: Heat above 70°C or incinerate. Deform. Mutilate. Crush. Disassemble. Overcharge. Short circuit. Expose over a long period to humid conditions.

Materials to avoid: Oxidising agents, alkalis, water.

Hazardous Decomposition Products: Toxic Fumes, and may form peroxides.

Hazardous Polymerization: N/A.

If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

11. Toxicological information (毒理性资料)

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Signs & symptoms:None, unless battery tuptures.

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

Inhalation:Lung irritant.

Skin contact:Skin irritant

Eye contact:Eye irritant

Ingestion:Poisoning if swallowed

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to server irritation, burning and dryness of the skin may occur, Target organs nerves, licer and kidneys.

12. Ecological informtion(生态学资料)

Mammalian effects:None known at present.

Eco-toxicity:None known at present.

Bioaccumulation potential: Slowly Bio-degradable.

Enviromental fate:None known environmental hazards at present.

13. Disposal consideration(废弃处置)

Do not incinerate, or subject cells to temperaure in excess of 70°C, Such abuse can result in loss of seal leakage, And/or cell explosion. Dispose of in accordance with appropriate local regulations.

14. Transport information(运输信息)

The Li-Polymer Battery had been tested according to the requirements of the UN manual of tests and Criteria, Part III, subsection 38.3;

The Li-Polymer Battery with a Watt-hour rating not exceeding 100Wh or the cell with a Watt-hour rating in not exceeding of 20Wh, The lithium ion batteries according to Section II/Section IB of PACKING INSTRUCTION 965, or of PACKING INSTRUCTION 966~967 of the 2018 Dangerous Goods regulations 59th Edition may be transported.

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture. According to the Packing Instruction of IATA DGR 59th Edition for transportation.

Meets requirements of International Maritime Dangerous Goods(IMDG)-2016 Special Provision 188 to be transported as non-dangerous goods;

Meets the requirements of 49CFR173.185 to be transported as non-dangerous goods for road, rail, air, and vessel.

Meets the requirements of TDG special provision 34 to be transported as non-dangerous goods.

The package must be handled with care and that a flammability hazard exists if the package is damaged;

UN number of lithium battery: UN3480 or UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries contained in equipment or Lithium ion batteries packed with equipment;

UN Classification (Transport hazard class): Non dangerous;

15. Regulation information(法规信息)

Law information

《Dangerous Goods Regulations》

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《Recommendations on the Transport of Dangerous Goods Model Regulations》
《International Maritime Dangerous Goods》
《Technical Instructions for the Safe Transport of Dangerous Goods》
《Classification and code of dangerous goods》
《Occupational Safety and Health Act》 (OSHA)
《Toxic Substance Control Act》 (TSCA)
《Consumer Product Safety Act》 (CPSA)
《Federal Environmental Pollution Control Act》 (FEPCA)
《The Oil Pollution Act》 (OPA)
《Superfund Amendments and Reauthorization Act TitleIII(302/311/312/313) 》 (SARA)
《Resource Conservation and Recovery Act》 (RCRA)
《Safety Drinking Water Act》 (CWA)
《California Proposition 65 》
《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and local laws.

16. Other information(其他信息)

This information is not effective to all the batteries manufactured by Dongguan Hilion Battery Co., Ltd. This information comes from reliable sources, but no warranty is made to the completeness and accuracy of information contained. Dongguan UTL Electronic Technology Co., Ltd. doesn't assume responsibility for any damage or loss because of misuse of batteries. User's should grasp the correct use method and be responsible for the use of batteries.