MATERIAL SAFETY DATA SHEET

Dantona Industries, Inc., 3051 Burns Ave., Wantagh, NY 11793

Identification of the substance/preparation and of the company/undertaking

Identification of the product

Product name : Li-ion Battery

Chemical System: Cylindrical and Prismatic Type Cells_

Model: X Yes No

Designated for RECHARGE

2. Composition/information on ingredients

Ingredient	Percent	CAS Index No./EC No.	Molar mass	Molecular formula	Symbol
Lithium cobaltate	28.7%	12190-79-3		LiCoO2	
Graphite	15.5%	7782-42-5		С	
Organic Electrolyte	12.4%	N/A			
Polypropylene	2.6%	9003-07-0			
Steel	26.5%	7439-89-6		Fe	
Copper	5.9%	7440-50-8		Cu	
Aluminum	8.4%	7429-90-5		Al	

Weight of lithium per cell: 0g. There is no metallic lithium in the lithium ion battery.

3. Hazards identification

Health Hazards (Acute and Chronic):

For the battery cell, chemical materials are stored in a hermetically sealed can, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition or explosion and chemical danger of hazardous materials leakage.

However, if exposed to a fire, added mechanical shocks, decomposed, or added electric stress by misuse the cell case will be breached and hazardous materials may be released. Moreover, if heated strongly by the surrounding fire, acrid gas may be emitted.

Carcinogenicity:

NTP: None IARC Monograph: None OSHA Regulated: None

Medical Conditions Generally Aggravated by Exposure:

An acute exposure will not generally aggravate any medical condition.

Human health effects:

Inhalation: The steam of the electrolyte has an anesthesia action and stimulates a respiratory tract.

Skin contact: The steam of the electrolyte stimulates a skin. The electrolyte skin contact causes a sore and the stimulation on the skin.

Eye contact: The steam of the electrolyte stimulates eyes. The electrolyte eye contact causes a sore and the stimulation on the eye. Inflammation of the eyes may occur.

Environmental effects:

Since a battery cell remains in the environment, do not throw out it into the environment.

Specific hazards:

If the electrolyte contacts with water, it may generate detrimental hydrogen fluoride.

Since the leaked electrolyte is inflammable liquid, do not bring close to fire.

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4. First aid measures

After inhalation contact: Make the victim blow his/her nose, gargle. Seek medical attention if

necessary.

After skin contact: Remove contaminated clothes and shoes immediately. Immediately

wash extraneous matter or contact region with soap and plenty of

water.

After eye contact: Do not rub eyes. Immediately flush eyes with water continuously for at

least 15 minutes. Seek medical attention.

After ingestion contact: Make the victim vomit. Immediately seek medical attention.

5. Fire-fighting measures

fire-fighting:

Extinguishing Media: Plenty of water, CO₂ gas, nitrogen gas, chemical powder fire

extinguishing medium and fire foam.

Specific methods of When the battery burns with other combustibles simultaneously, take

fire-extinguishing method, which corresponds to the combustibles.

Extinguish a fire from the windward as much as possible.

Flammable Limits: Not available

6. Accidental release measures

The preferred response is to leave the area and allow the batteries to cool and the vapors to dissipate. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

7. Handling and storage

Avoid mechanical or electrical abuse. Batteries 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

Specific control parameter:

Personal protective equipment :

Respiratory protection (Specify Type): Not necessary under conditions of normal use.

Ventilation: Not necessary under conditions of normal use.

Protective Gloves:

Eye protection:

Other Protective(Clothing or Equipment):

Not necessary under conditions of normal use.

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9. Physical and chemical properties

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Appearance

Physical state: Solid
Form: Cylindrical
Color: Metallic color
Odor: No odor
PH N/A

Specific temperatures Temperature ranges changes in physical state occur.

Flash point N/A
Explosion properties N/A
Density N/A

Solubility with indication of the solvent(s): Insoluble in water

10. Stability and reactivity

Stability: Stable

Conditions to Avoid: When cell is exposed to an external short-circuit, crushes, deformation, high

temperature above 100 degree C, it will cause heat generation and ignition.

Avoid direct sunlight and high humidity.

Hazardous Acrid or harmful gas is emitted during fire.

Decomposition or By-products:

Materials to avoid: Conductive materials, water, seawater, strong oxidizers and strong acids.

Hazardous polymerization will not occur.

11. Toxicological information

Acute toxicity:

Copper 60-100mg sized coarse particulate causes a gastrointestinal disturbance

with nausea and inflammation. TDLo, hypodermic - Rabbit 375mg/kg

Organic electrolyte

Further toxicological

information:

Aluminum By the long-term inhalation of coarse particulate or fume, it is possible to

cause lung damage (aluminum lungs).

LD50, oral - Rat 2,000mg/kg or more

Lithium Cobaltate By the long-term inhalation of coarse particulate or vapor of cobalt, it is

possible to cause the serious respiratory-organs disease. Skin reaction or a

lung disease for allergic or hypersensitive person may be caused.

Graphite Long-term inhalation of high levels of graphite coarse particulate may cause

lung disease or a tracheal disease.

12. Ecological information

Ecotoxic effects: N/A

Further ecological data: N/A

13. Disposal considerations

Dantona Ind. encourages battery recycling. Our Li-ion batteries are recyclable through the Rechargeable Battery Recycling Corporation's (RBRC) *Charge Up to Recycle! Program*. For information call 1-800-8-BATTERY or see their website at www.rbrc.org. Li-ion batteries must be handled in accordance with all applicable state and federal laws and regulations.

DO NOT INCINERATE or subject battery cells to temperatures in excess of 212° F. Such treatment can vaporize the liquid electrolyte causing cell rupture. Do not use in combination with fresh and used lithium batteries neither

with other type of battery.

14. Transport information

International transport 1. International Air Transport Association (IATA) pursuant to P1 965 Part

regulations :

2. International Maritime Dangerous Goods Code (IMDG) pursuant to

Special Provisions 188 and 230.

4. U.S. hazardous materials regulations pursuant to 49 CFR 173.185

and Special Provision 188.

UN-No.: 3480 IATA Packaging Instruction 965 Part 1

Dantona Li-ion cells contain no metallic lithium.