

Bon[®]

SAFETY DATA SHEET

#17-135/17-136 Lithium Ion Battery

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lithium-ion Battery

Other Means of Identification: 17-135/17-136

Manufacturer/Supplier:

Bon Tool Co.
4430 Gibsonia Rd.
Gibsonia, PA 15044

Telephone Numbers:

Phone: 800-444-7060

Fax: 800-444-7065

Emergency Phone (24 hrs):

Chem-Tel 800-255-3924

Revised On: 9/20/2024

2. HAZARDOUS IDENTIFICATION

Classification

LITHIUM- ION BATTERIES

Hazard statement

Not dangerous in normal use & without damage. Hazards caused by spilled internal cell materials and precautionary statements as following:

Classification

<i>Hazard class</i>	<i>Hazard category</i>
Aspiration hazard	2
Acute toxicity	3
Skin corrosion/ irritation	2
Serious eye damage/eye irritation	2/2A
Skin sensitization	1, 1A, 1B, 1C

Warning

May cause an allergic reaction

3. INGREDIENTS/COMPOSITION INFORMATION

Chemical Name	CASCAS No.	Weight-%
Cobalt lithium manganese nickel oxide	182442-95-1	30~40
Carbon Black	1333-86-41~2	
Poly(vinylidene Fluoride) (PVDF)	24937-79-9	0~1
Graphite	7782-42-52	0~21
Carboxymethyl cellulose	9004-32-4	0~1
Styrene-butadiene rubber	(SBR)9003-55-8	0~1
Polyethylene	9002-88-4	2~3
Phosphate(1-), hexafluoro-, lithium	21324-40-31	7~20
Copper	7440-50-8	8~10
Aluminum	7429-90-5	3~4
Nickel	7440-02-0	1~2

4. FIRST AID MEASURES

The lithium ion batteries are not hazardous with eye and skin contact under normal circumstance. In case of internal hazardous substance leaking an hazardous substance, following measures should be taken if body parts contact with these substance:

After Skin Contact: In case of contact, immediately wash skin with soap and copious amounts of water.

After Eye Contact: In case of contact, flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

After Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

After Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5. FIRE-FIGHTING MEASURES

Characteristics of Hazard: Toxic fumes; gases or vapors may evolve on burning.

Hazardous Combustion Products: CO, CO₂, HF, phosphorus fluoride.

Fire-extinguishing Methods and Extinguishing Media: Copious amounts of cold water are an effective extinguishing medium for lithium-ion batteries.

Don't use warm or hot water. Don't use Halon type extinguishing material. Dry powder, sand and earth might be used.

Attention in Fire-extinguishing: The Firemen should put on anti-gas masks and full fire-fighting suits.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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 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 circuit or install with incorrect polarity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Protective Gloves

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

Appearance: Cuboid

Color: Grey

Odors: 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

Chemical Stability: Stable under normal temperatures and pressures.

Incompatibility: Oxidizing agents

Conditions to Avoid: Heat and open flame, short circuit, and water

Hazardous polymerization: Will not occur

Decomposition Products: CO, CO₂, HF, phosphorus fluoride

11. TOXICOLOGICAL INFORMATION

Signs & Symptoms: This product has had no toxicology testing. Harmful if ingested.

None, unless battery ruptures.

In the event of exposure to internal contents, vapor 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.

12. ECOLOGICAL INFORMATION

None known at present.

Eco-toxicity: None known at present.

Bio accumulation potential: Slowly Bio-degradable.

Environmental fate: None known environmental hazards at present

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Federal, State and Local regulations when storing and disposing of substances.

Do not allow material to run off work area, and final rinsing should be absorbed or vacuumed and disposed of in accordance with regulations.

Container disposal:

Dispose of at an approved landfill in accordance with local, state, federal and national regulations

14. TRANSPORT INFORMATION

Proper Shipping Name: Lithium ion batteries (Including lithium ion polymer batteries) or;

Lithium ion batteries contained in equipment (Including lithium ion polymer batteries) or;

Lithium ion batteries packed with equipment (Including lithium ion polymer batteries)

Battery-powered vehicle or Battery-powered equipment

Labels for Package: Class 9 or Category 9, Miscellaneous

EmS: F-A, S-I

15. REGULATORY INFORMATION

Dangerous Goods Regulations

Recommendation 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)

III(302/311/312/313)

Superfund Amendments and Reauthorization Act Title III (302/311/312/313) (SARA)

Resource Conservation and Recovery Act (RCRA)

16. OTHER INFORMATION

The information on this SDS is provided in good faith in the interest of product safety and believed to be accurate to the best of our knowledge. However, Bon® makes no guarantee and assumes no liability for the data contained. Users should conduct their own research regarding suitability for their purposes. Nothing contained in this SDS should be misconstrued as permission to violate any regulation. End users should follow all local, state, national and international regulations as apply.