



Safety Data Sheet

BOOSTER

Version :

3

Issue date :

02/02/2020

1. PRODUCT AND COMPANY IDENTIFICATION COMPANY IDENTIFICATION

Product identifier:

Product Form:

Article

Product name:

BOOSTER – POWER BOX

Relevant identified uses of the substance and uses advised against:

Identified uses:

Multi-function Jump Starter (<100Wh)

Uses advised against:

Not available.

Details of the supplier of the safety data sheet:

Supplier:

BS BATTERY SAS

Address:

23 bis rue Edouard Nieuport

92150 Suresnes

France

Telephone:

(France) +33 1 83 62 45 55

Emergency telephone Number:

CHEMTREC (US, Canada & Mexico)

0086-1-800-424-9300

CHEMTREC (International)

0086-1-703-527-3887

Available outside office hours? YES

☐

NO

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2. HAZARDS IDENTIFICATION

For the battery cell, chemical materials are stored in a hermetically sealed Aluminum laminated case, 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. This product meets the definition of an "article" and is not subject to the hazards normally associated with the individual components when used as intended.

However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product. Always be aware of the risk of fire, explosion or burns. Do not short circuit the terminals with any other metals. Do not disassemble or modify the battery. Do not solder a battery directly. Keep away from fire or open flame.

3.COMPOSITION / INFORMATION ON INGREDIENTS

IMPORTANT NOTE: The battery cell should not be opened or exposed to heat because exposure to the following ingredients contained within could be harmful under some circumstances.

Component	CAS No.	Weight
Lithium Cobalt Oxide	12190-79-3	30-50%
Carbon / Graphite	7782-42-5	15-25%
Aluminum Foil	7429-90-5	3-10%
Copper Foil	7440-50-8	7-14%
PVDF (Polyvinylidene Fluoride)	24937-79-9	3-8%
Electrolyte	21324-40-3	10-20%
AL Lamination Film	7429-90-5	<8%

Weight % listed is based on approximate percent of the average weight of the battery

4. FIRST-AID MEASURES

Spilled internal cell materials

After inhalation:

Make the victim blow his/her nose, gargle. Seek medical attention if necessary.

After skin contact:

Remove contaminated clothes and shoes immediately. Wash extraneous matter or contact region with soap and plenty of water immediately.

After eye contact:

Do not rub one's eyes. Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.

After swallowing:

Make the victim vomit. When it is impossible or the feeling is not well after vomiting, seek medical attention.

5.FIRE-FIGHTING MEASURE

Suitable extinguishing media: Plenty of water, carbon dioxide gas, nitrogen gas, chemical powder fire extinguishing medium and fire foam

Specific hazards: Corrosive gas may be emitted during fire.

Specific methods of firefighting: When the battery burns with other combustibles simultaneously, take fire extinguishing method which correspond to the combustibles. Extinguish a fire from the windward as much as possible.

Special protective equipment for firefighters:

Respiratory protection: Respiratory equipment of a gas cylinder style or protection-against-dust mask.

Hand protection: Protective gloves

Eye protection: Goggle or protective glasses designed to protect against liquid splashes

Skin and body protection: Protective cloth

6. ACCIDENTAL RELEASE MEASURES

Spilled internal cell materials, such as electrolyte leaked from a battery cell, are carefully dealt with according to the followings.

Precautions for human body:

Remove spilled materials with protective equipment (protective glasses and protective gloves). Do not inhale the gas as much as possible. Moreover, avoid touching as much as possible.

Environmental precautions: Do not throw out into the environment.

Method of cleaning up:

The spilled solids are put into a container. The leaked place is wiped off with dry cloth.

Prevention of secondary hazards:

Avoid re-scattering. Do not bring the collected materials close to fire.

7. HANDLING AND STORAGE

Handling technical measures =

Prevention of user exposure: Not necessary under normal use.

Prevention of fire and explosion: Not necessary under normal use.

Precaution for safe handling: Do not damage or remove the external tube.

Specific safe handling advice:

Never throw out cells in a fire or expose to high temperatures. Do not soak cells in water or seawater. Do not expose to strong oxidizers. Do not give a strong mechanical shock or fling. Never disassemble, modify or deform. Do not connect the positive terminal to the negative terminal with electrically conductive material. In the case of charging, use only dedicated charger or charge according to the conditions specified by BS BATTERY.

Storage technical measures =

Storage conditions (suitable, to be avoid): Avoid direct sunlight, high temperature, high humidity. Store in cool place (temperature: -20 ~ 35 degree C, humidity: 45 ~ 85%).

Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids

Packing material (recommended, not suitable): Insulative and tearproof materials are recommended.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Not established

Appropriate engineering controls:

Under normal conditions (during discharge) release of ingredients does not occur. ACGIH: American Conference of Governmental Industrial Hygienists, Inc.

TLV-TWA: Threshold Limit Value-Time Weighted Average concentration BEI:

Biological Exposure Indices

Personal protective equipment:

Respiratory protection: Respirator with air cylinder, dust mask

Hand protection: Protective gloves

Eye protection: Goggle or protective glasses designed to protect against liquid splashes

Skin and body protection: Working clothes with long sleeve and long trousers

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Form: Prismatic

Color: Metallic color (without tube)

Odor: No odor

pH: NA

Specific temperatures/temperature ranges at which changes in physical state occur:

There is no useful information for the product as a mixture.

Flash point: NA

Explosion properties: NA

Density: NA

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

10. STABILITY AND REACTIVITY

Stability: Stable under normal use

Hazardous reactions occurring under specific conditions

Conditions to avoid: Heat above 70° or incinerate. Deform, mutilate, crush, disassemble, overcharge, short circuit, expose over a long period to humid conditions. Do not put it under sunlight and high humidity directly.

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

Hazardous decomposition products: Acrid or harmful gas is emitted during fire.

11. TOXICOLOGICAL INFORMATION

There is no available data on the product itself. The information of the internal cell materials is as follows.

Irritation: 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.

Sensitization: Not available

Neurological effects: Not available

Teratogenicity: Not available

Reproduce toxicity: Not available

Mutagenicity: Not available

Toxicology Synergistic: Not available

12. ECOLOGICAL INFORMATION

• Persistence/degradability: do not bury or throw out into the environment.

13. DISPOSAL CONSIDERATIONS

• Recommended methods for safe and environmentally preferred disposal:

Product (waste from residues)

Do not throw out a used battery cell. Recycle it through the recycling company.

Contaminated packaging

Neither a container nor packing is contaminated during normal use. When internal materials leaked



from a battery cell contaminates, dispose as industrial wastes subject to special control.

14. TRANSPORT INFORMATION

SHIPPING BY AIR

14.1 UN Number : 3481

14.2 UN Proper shipping name : LITHIUM ION BATTERIES

14.3 Transport Hazard class : 9

14.4 Packing group : II

14.5 Environmental hazards : No

14.6 IATA Transport : PI 965-Section IB ($\leq 100\text{Wh}$)

SHIPPING BY SEA or ROAD

14.1 UN Number : UN3481

14.2 UN Proper shipping name : LITHIUM ION BATTERIES

14.3 Transport Hazard class : 9

14.4 Packing group : II

14.5 Environmental hazards : No

14.6 IMDG Transport : SP188 ($\leq 100\text{Wh}$)

15. REGULATORY INFORMATION

《Classification, Labeling and Packaging Regulation》

《REACH (EC)1907/2006》

《Dangerous Goods Regulation》

《Recommendations on 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 Substances Control Act》 (TSCA)

《Consumer Product Safety Act》 (CPSA)

《Federal Environmental Pollution Control Act》 (FEPCA)

《The Oil Pollution Act》 (OPA)

《Resource Conservation and Recovery Act》 (RCRA)

《Safety Drinking Water Act》 (CWA)

《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and local laws

16. OTHER INFORMATION

- The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.

- This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

- **Reference**

Chemical substances information: Japan Advanced Information center of Safety and Health

International Chemical Safety Cards (ICSCs):

International Occupational Safety and Health Information Centre (CIS)

2002 TLVs and BEIs: American Conference of Governmental Industrial Hygienists (ACGIH) New Dangerous Goods Best Practice 008--in the 51st Edition IATA DGR (2010)(with effect from 01 January 2010)

GB/T 16483-2008 Safety data sheet for chemical products Content and order of sections ISO

11014:2009(E) Safety data sheet for chemical products –Content and order of sections IMDG

Code – 2008 Edition: International Maritime Organization (IMO)

RTECS(CD-ROM)

MSDS of raw materials prepared by the manufactures First

Edition: Feb. 05 2016

Latest Edition: Feb. 02 2020

Prepared and approved by BS BATTERY S.a.s