

Item no.: 2583624

## Material Safety Data Sheet

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### 1. Product & Company Identification

<b>Product name:</b>	Power Bank PB-20-PD3.0 (VC-12918120) with rechargeable Li-Ion-battery
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Item no.	Voltage	Capacity	Energy content
2583624	3.7 V	20000 mAh	74 Wh

<b>Manufacturer:</b>	Conrad Electronic SE
<b>Address:</b>	Klaus-Conrad-Str. 1, D-92240 Hirschau
<b>Telephone:</b>	+49 (0) 9604 / 40 - 8988
<b>Internet:</b>	www.conrad.com
<b>Date of issue:</b>	08.10.2022

### 2. Hazards Identification

**Emergency overview:**

No information available.

**Classification according to GHS:**

Not a dangerous substance according to GHS.

**GHS Label elements:**

Hazard pictogram(s): No data available

Signal word: No data available

Hazard statement(s): No data available

**Precautionary statement(s):**

Prevention: No data available

Response: No data available

Safe storage: No data available

Disposal: No data available

**Other:**

Physical and chemical risk: No information available.

Health hazard: No information available.

Environmental hazards: No information available.

Other hazards: No information available.

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### 3. Composition Information

Classification of the substance or mixture: \_\_\_\_\_ substance     mixture

Chemical Composition	CAS No.	Weight (%)
Lithium Cobalt Oxide	12190-79-3	34.5
Aluminum	7429-90-5	10
PVDF Polyvinylidene fluoride	24937-79-9	1
Graphite	7782-42-5	17
Copper	7440-50-8	15
SBR Styrene-Butadiene polymer	9003-55-8	2.8
Lithium hexafluorophosphate	21324-40-3	2.5
Ethylene carbonate	96-49-1	5
Dimelene carbonate	616-38-6	5
Carbonate, methyl ethyl	623-53-0	5
Nickel	7440-02-0	2.2

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

"N/A": No Data

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### 4. First Aid Measures

**General information:**

No special measures required.

**After inhalation:**

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

**After skin contact:**

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

**After eye contact:**

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

**After swallowing:**

Do not induce vomiting. Get medical attention.

**Acute and delayed effects:**

The main symptoms: No relevant details information.

Health effects: No relevant details information.

To protect the rescuers advice: No relevant details information.

To the doctor's advice: Need timely medical treatment and special symptoms, no relevant details information.

### 5. Fire Fighting Measures

**Suitable extinguishing agents:**

Use extinguishing agent suitable for local conditions and the surrounding environment . Such as dry powder , CO2.

**Special hazards arising from the substance or mixture:**

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150°C(302°F)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

**Attention extinguishing method and protective measures:**

Wear self-contained respirator. Wear fully protective impervious suit.

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### 6. Accidental Release Measures

**Homework personnel protective measures, protective equipment and emergency disposal procedures:**

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

**Environmental precautions:**

Do not allow material to be released to the environment without proper governmental permits.

**Steps to be taken in case material is spilled or released and Waste disposal method:**

Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water. All waste must refer to the United Nations, the national and local regulations for disposal.

**To prevent the secondary disasters prevention measures:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7. Handling and Storage

**Precautions for safe handling:**

Consumption of food and beverage should be avoided in work areas. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

**Information about fire and explosion protection:**

Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

**Conditions for safe storage, including any incompatibilities:**

Requirements to be met by storerooms and receptacles. Store in a cool, dry, well-ventilated place. Keep away from heat, avoiding the Long time of sunlight.

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### 8. Exposure Controls, Personal Protection

#### Occupational exposure limit

Ingredients with limit values that require monitoring at the workplace:	
12190-79-3 Lithium Cobalt Oxide	
TLV (USA)	0.02mg/m <sup>3</sup>
MAK (Germany)	0.1mg/m <sup>3</sup>

Note:TLV: Threshold Limit Value

#### Biological limit:

no relevant details information.

#### Detection:

no relevant details information.

#### Engineering control:

#### General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

#### Respiratory Protection:

Use suitable respirator when high concentrations are present.

#### Hand protection:



#### Eye protection.



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### 9. Physical and Chemical Properties

Appearance:	Grey and Black
Form:	Approximate cuboid
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

**Chemical stability:**

Stable in normal circumstances.

**Possibility of hazardous reactions:**

Data not available.

**Conditions to Avoid:**

Flames, sparks, and other sources of ignition, incompatible materials.

**Incompatibilities:**

Oxidizing agents, acid, base.

**Hazardous Combustible Products:**

Carbon monoxide, carbon dioxide, lithium oxide fumes.

### 11. Toxicological Information

**Information on toxicological effects**

Acute toxicity LD/LC50 Values relevant for classification:	Not available.
Skin irritation/corrosion:	No further relevant information available.
Eyes stimulus/corrosion:	No further relevant information available.
Breathing or skin irritation:	No further relevant information available.
Germ cell respectively:	No further relevant information available.
Carcinogenicity:	No further relevant information available.
Reproductive toxicity:	No relevant details information.
Specific target organ system toxicity disposable contact:	No further relevant information available.
Specific target organ system toxicity, repeated contact:	No further relevant information available.
Inhalation hazard:	No further relevant information available.
Potentially harmful effects:	No further relevant information available.

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### 12. Ecological Information

#### Ecological toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

#### Behaviour in environmental systems

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

#### Ecological effects

Additional ecological information : No further relevant information available.

#### General notes

Do not allow material to be released to the environment without proper governmental permits.

Other adverse effects: No further relevant information available.

### 13. Disposal Considerations

#### Waste treatment methods and Recommendation:

Consult state, local or national regulations to ensure proper disposal.

#### Uncleaned packaging and Recommendation:

Disposal must be made according to official regulations.

### 14. Transport Information

#### Label for conveyance:

Lithium Battery Label, or Lithium Battery Class 9 Label, or Cargo Aircraft only

#### UN Number:

3480 & 3481

#### Packaging Group:

N/A

#### Marine pollutant:

No

#### Proper Shipping name:

Lithium Ion Battery (Including Lithium Polymer Battery) , Lithium Ion Battery Packed With Equipment, Lithium Ion Battery Contained In Equipment

#### Transport information:

Lithium battery is of a type proved to meet the Requirements of each test in the UN Manual of Tests And Criteria, Part III, sub-section 38.3. (Report No. : LA2022B0833001U): The lithium-ion battery with a watt-hour rating not exceeding 100Wh or the cell with the watt-hour rating is not exceeding 20Wh, The lithium-ion battery according to Section II/Section IB of Packing Instruction 965, or Section II of Packing Instruction 966~967 of the Dangerous Goods regulations 63rd Edition may be transported. The goods shall be complied with the requirements of special provision 188 of IMDG CODE (Amdt. 40-20) 2020, The goods to be transport as Unrestricted goods.

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### 15. Regulatory Information

#### Law information

«Dangerous Goods Regulations»

«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

This Material Safety Data Sheet complies with the requirements of Regulation (EU) No 2020/878.

### 16. Additional Information

#### Declare to reader:

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.