MultiReach Ion XL Cordless Vacuum Lithium Ion Battery

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The products referenced herein are 'articles' under 29CFR 1910.1200(c) and are <u>not</u> subject to OSHA's requirements for material safety data sheets under its Hazard Communication Standard, 29 CFR 1900.1200. This Product Data Sheet is provided as a service to our customers.

1. Product and Company Identification

Identity: MultiReach Ion XL Cordless Vacuum Lithium Ion Battery

Models: 2166 Series Effective: May 20, 2019

Manufacturer: BISSELL Homecare, Inc.

PO Box 1888

Grand Rapids, MI 49501 Phone: 1-616-453-4451

3. Composition information

BISSELL battery packs contain lithium ion cells from various manufactures. Li-ion cells are generally composed of the following major ingredients

	Chemical Name	CAS No.	*Mass range in cell (g/g $\%$)
Cathode	Lithium cobalt oxide	12190-79-3	20-50
Anode	Graphite	7782-42-5	10-30
Binder	Polyvinylidene fluoride	24937-79-9	<1
Electrolyte salt	Lithium hexafluorophosphate	21324-40-3	0.05-5
	Includes one or more of the		
Electrolyte	following;		
solvent	Ethylene Carbonate	96-49-1	5-20
	Propylene Carbonate	108-32-7	
	Diethyl Carbonate	105-58-8	
Other	Copper	7440-50-8	3-15
Components	Aluminum	7429-90-5	2-10
	Steel, Nickel, and inert	Various	Balance
	components		

As manufactured, Li-ion cells do not contain lithium metal

2. Hazards Identification

Potentially hazardous materials are fully contained in hermetically sealed case designed to with stand normal handling and use. Exposure could only occur if the battery or cells have been opened, disassemble, crushed, burned, exposed to high temperatures (> 60C or 140F), or subject to toher types of abuse. Exposure to the cell contents may be harmful under some circumstances.

Follow instructions and precautions for safe use of the battery pack.

4. First Aid Measures

Cell manufacturers recommend that in case of exposure to the cell contents, wash affected area for at least 15 minutes with generous amounts of water and seek medical attention.

5. Fire Fighting Measures

Fires involving these types of battery backs should be flooded with water or use CO2, foam or dry chemical extinguishing media. Fires involving large quantities of batteries may produce toxic, corrosive, or irritating fumes including hydrogen fluoride (HF)

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6. Accidental Release Measures

If batteries are spilled and damaged, they should be disposed according to the disposal section.

7. Handling and Storage

The battery pack and enclosed cells should not be opened, disassembled, crushed, burned, or exposed to high temperatures (> 60C or 140F).

8. Exposure controls/personal protection

No personal protection is required during normal handling and use. Exposure to the ingredients contained within the cells within the battery pack could be harmful under some circumstances. In case of exposure to the cell contents, wash affected area for at least 15 minutes with generous amounts of water and seek medical attention.

9. Physical and Chemical Properties

These batteries are solid articles. Properties such as odor, pH, vapor pressure, solubility, etc. are not applicable.

10. Stability and Reactivity

Reactivity None during normal handling and use Incompatibility None during normal handling and use

Hazardous decomposition products

None during normal handling and use

Conditions to avoid The battery pack and enclosed cells should not be opened,

disassembled, crushed, burned, or exposed to high temperatures

11. Toxicological Information

There are no known toxicological properties of the batteries during normal handling and use.

12. Ecological Information

There are no known ecological risks of the batteries during normal handling and use.

13. Disposal

Lithium ion battery packs should be disposed of or recycled in accordance with any applicable national, state/provincial, and local requirements. BISSELL is a Licensee of the Call2Recycle Battery Recycling Program, please call 1-800-8-BATTERY or go to the Call2Recycle website at www.call2recycle.org for how to recycle our product. Do not dispose of in fire.

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14. Transport

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UN3480, Lithium Ion Batteries

UN3481, Lithium Ion Batteries contained in equipment

UN3481, Lithium Ion Batteries packed with equipment

When packaged and shipped by BISSELL Homecare, Inc., these batteries are tested, packaged and labeled in accordance with all applicable requirements for transport by mode of shipment (air, sea or ground), as follows:

- 1) International Air Transport Association (IATA), International Civil Aviation Organization (ICAO) Technical Instructions Dangerous Goods Regulation 60th Edition 2019:
 - a. PI 965 Section IA (UN 3480, batteries), including 30% state of charge maximum limit addendum
 - b. PI 966 Section I (UN 3481, batteries packed with equipment), and 967 Section I (UN 3481, batteries contained in equipment);
- 2) International Maritime Dangerous Goods (IMDG 2018)
- 3) U.S. Department of Transportation (DOT) 49 CFR 173.185;
- 4) European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2019)

All BISSELL Homecare, Inc. Li-lon batteries have been tested in accordance with the UN Manual Tests and Criteria, Part III, Subsection 38.3.

For transportation emergencies involving BISELL Homecare, Inc. battery products, call CHEMTREC at 1-800-424-9300.

15. Regulatory Information

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16. Other Information

Notice: The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. BISSELL Homecare, Inc. makes no warranty or implied with respect to this information and recommendations and disclaims all liability from reliance on it. "Equivalent lithium content' information is available from the manufacturer.