

The products referenced herein are 'articles' under 29CFR 1910.1200(c) and are not 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

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**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

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

	<b>Chemical Name</b>	<b>CAS No.</b>	<b>*Mass range in cell (g/g %)</b>
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
Electrolyte solvent	Includes one or more of the following; Ethylene Carbonate Propylene Carbonate Diethyl Carbonate	96-49-1 108-32-7 105-58-8	5-20
Other Components	Copper	7440-50-8	3-15
	Aluminum	7429-90-5	2-10
	Steel, Nickel, and inert components	Various	Balance

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

## 2. Hazards Identification

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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

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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

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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)

## **6. Accidental Release Measures**

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

## **7. Handling and Storage**

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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**

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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**

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

## **10. Stability and Reactivity**

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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**

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

## **12. Ecological Information**

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

## **13. Disposal**

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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](http://www.call2recycle.org) for how to recycle our product. Do not dispose of in fire.

## **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 60<sup>th</sup> 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-Ion batteries have been tested in accordance with the UN Manual Tests and Criteria, Part III, Subsection 38.3.

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

## **15. Regulatory Information**

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The products referenced herein are 'articles' under 29CFR 1910.1200(c) and are not subject to OSHA's requirements for material safety data sheets under its Hazard Communication Standard, 29 CFR 1900.1200.

## **16. Other Information**

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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.