

Section I - Product and Company Information

Product: Lithium ion and Lithium ion polymer batteries

Models: See Microsoft Product Battery Information Table, Section 14

Effective Date: November 28, 2017 Version: 2017A - Phones Manufacturer:

Microsoft Corporation
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Redmond, WA 98052-6399

Tel 425 882 8080

<u>Section II – Composition Information</u>

Not chemically dangerous during normal use in accordance with Microsoft recommendations as stated in the user manuals or other similar documentation. Exposure to hazardous chemicals is not expected with normal handling and use. In particular, the cell or battery should not be opened or burned.

Section III - Hazards Identification

Emergency Overview: Do not open or disassemble cells or batteries or expose them to fire or open flame. Do not puncture or deform. Cells and batteries present a hazard only if mishandled in a way that causes damage to the cell or battery or compromises their integrity.

Primary Routes of Exposure: Risk of exposure to hazardous materials will only occur if the cell or battery is physically, thermally or electrically abused to the extent that the integrity of the cell or battery is compromised. In this case, exposure to the electrolyte can occur through ingestion, inhalation, eye contact and skin contact.

Potential Health Effects: If the battery or cell has been damaged or ruptured, the electrolyte solution, which is corrosive, could be released and cause burns to the eyes, skin or respiratory tract. Ingestion of the electrolyte can cause serious burns of the gastrointestinal tract.

Section IV – First Aid Measures

If you get electrolyte in your eyes, flush with water for 15 minutes without rubbing and immediately contact a physician. If you get electrolyte on your skin wash the area immediately with soap and water. If irritation continues, contact a physician. If the battery is ingested, call the National Capital Poison Center (NCPC) at 202-625-3333 (Collect) or your local poison center immediately.

Section V - Firefighting Measures

In case of fire, you can use dry chemical, alcohol resistant foam or carbon dioxide fire extinguishers. Cooling the exterior of the cells or batteries will help prevent rupturing. Burning of these cells or batteries will generate toxic fumes. Fire fighters should use self-contained breathing apparatus. Detailed information on fighting a lithium ion battery fire can be found in Guide 147 (Lithium Ion Batteries) of the US DOT Emergency Response Guide.

Section VI - Accidental Release Measures

Containment Techniques: Damaged cells or batteries that are not hot or venting should be placed in a sealed plastic bag or container. Absorb any spilled liquid with inert material.

Personal Precautions: Safety glasses and neoprene or natural rubber gloves should be worn when cleaning up damaged or leaking cells. Keep unnecessary personnel away from the immediate area.



Section VII - Handling and Storage

Handling: Use only approved charging equipment. Do not expose cell or battery to extreme heat or fire. Do not disassemble, puncture, crush or burn battery. Avoid handling in a way that would cause a short circuit.

Storage: Store batteries in a dry location. To minimize any adverse effects on battery performance it is recommended that the batteries be kept at room temperature (25°C +/- 5°C). Elevated temperatures can result in shortened cell life. Keep out of reach of children.

<u>Section VIII – Exposure Controls / Personal Protection</u>

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

Section IX - Physical and Chemical Properties

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

Section X - 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 cells or batteries should not be opened, disassembled, crushed, burned, or exposed to high temperatures.

Section XI - Toxicological Information

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

Section XII - Ecological Information

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

Section XIII - Disposal

Microsoft product batteries contain recyclable materials and should not be put into the municipal waste stream. It is recommended that cells and batteries be completely discharged prior to disposal and/or the terminals taped to prevent short circuiting. Dispose of in accordance with local, state and federal regulations. Do not dispose of in fire.



Section XIV - Transport Information

All Microsoft product cells and batteries have been successfully tested and comply with the UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3. Product cells and batteries have been manufactured under a quality management program as specified in 2.9.4 of the UN Model Regulations.

All Microsoft Lithium ion product cells are rated at 20 Watt-hours or less and lithium ion batteries are rated at 100 Watt-hours or less and meet the requirements for transportation under:

- UN Model Regulations Special Provisions 188 and 230
- International Civil Aviation Organization (ICAO) Technical Instructions and the International Air Transport Association (IATA) Dangerous Goods Regulations Packing Instructions:
 - 965 Section IB or Section II (UN3480, Lithium ion batteries)
 - These batteries will be offered for transport at a state of charge (SOC) not exceeding 30% of their rated design capacity.
 - 966 Section II (UN3481, Lithium ion batteries packed with equipment)
 - 967 Section II (UN3481, Lithium ion batteries contained in equipment)
- International Maritime Organization (IMO) Special Provisions 188 and 230
- European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) Special Provisions 188
 and 230
- Canadian Transport of Dangerous Goods Regulations (TDGR) Special Provision 34
- U.S. Department of Transportation (DOT) 49 CFR 173.185 and 173.185(c)

The following table provides Microsoft Product Battery Information:

Battery Model	Product Name	Cells per Battery	Batteries per Product	Battery Weight (kg)	Wh Rating	UNID & Proper Shipping Name
BL-4U	Asha 210	1	1	0.0235	4.4	UN 3481 Lithium ion batteries packed with equipment
BV-5XW	Lumia 1020	1	1	0.036	7.6	UN3481 Lithium ion batteries contained in equipment
BC-3S	Lumia 2520	4	1	0.162	29.6	UN3481 Lithium ion batteries contained in equipment
BV-4BW	Lumia 1320	1	1	0.059	13.3	UN3481 Lithium ion batteries contained in equipment
BV-4BW	Lumia 1520	1	1	0.059	13.3	UN3481 Lithium ion batteries contained in equipment
BN-06	Lumia 430	1	1	0.0235	5.55	UN 3481 Lithium ion batteries packed with equipment
BV-5J	Lumia 435	1	1	0.030	5.9	UN 3481 Lithium ion batteries packed with equipment
BL-5J	Lumia 520	1	1	0.030	5.3	UN 3481 Lithium ion batteries packed with equipment
BL-5J	Lumia 520.2	1	1	0.030	5.3	UN 3481 Lithium ion batteries packed with equipment
BL-5J	Lumia 521	1	1	0.030	5.3	UN 3481 Lithium ion batteries packed with equipment
BL-5J	Lumia 525	1	1	0.030	5.3	UN 3481 Lithium ion batteries packed with equipment
BL-5J	Lumia 530	1	1	0.030	5.3	UN 3481 Lithium ion batteries packed with equipment
BL-5J	Lumia 532	1	1	0.030	5.3	UN 3481 Lithium ion batteries packed with equipment
BL-L4A	Lumia 535	1	1	0.0405	7	UN 3481 Lithium ion batteries packed with equipment



Battery Model	Product Name	Cells per Battery	Batteries per Product	Battery Weight (kg)	Wh Rating	UNID & Proper Shipping Name
BL-L4A	Lumia 540	1	1	0.0405	8.4	UN 3481 Lithium ion batteries packed with equipment
BL-T5A	Lumia 550	1	1	0.0394	7.8	UN 3481 Lithium ion batteries packed with equipment
BL-4J	Lumia 620	1	1	0.026	4.8	UN3481 Lithium ion batteries contained in equipment
BP-4GWA	Lumia 625	1	1	0.041	7.4	UN3481 Lithium ion batteries contained in equipment
BL-5H	Lumia 630	1	1	0.034	6.8	UN 3481 Lithium ion batteries packed with equipment
BL-5H	Lumia 635	1	1	0.034	6.8	UN 3481 Lithium ion batteries
BV-T5C	Lumia 640	1	1	0.046	9.5	packed with equipment UN 3481 Lithium ion batteries
BV-T4B	Lumia 640XL	1	1	0.053	11.4	packed with equipment UN 3481 Lithium ion batteries
BV-3TG	Lumia 650	1	1	0.036	7.4	packed with equipment UN 3481 Lithium ion batteries
BP-4GWA	Lumia 720	1	1	0.041	7.4	packed with equipment UN3481 Lithium ion batteries
BV-T5A	Lumia 730	1	1	0.039	8.4	contained in equipment UN 3481 Lithium ion batteries
BV-T5A	Lumia 735	1	1	0.039	8.4	packed with equipment UN 3481 Lithium ion batteries
BP-4W	Lumia 810	1	1	0.033	6.7	packed with equipment UN 3481 Lithium ion batteries
						packed with equipment UN 3481 Lithium ion batteries
BP-5T	Lumia 820	1	1	0.034	6.1	packed with equipment UN 3481 Lithium ion batteries
BP-4W	Lumia 822	1	1	0.038	6.7	packed with equipment UN 3481 Lithium ion batteries
BV-L4A	Lumia 830	1	1	0.0405	8.4	packed with equipment
BP-4GW	Lumia 920	1	1	0.040	7.4	UN3481 Lithium ion batteries contained in equipment
BL-4YW	Lumia 925	1	1	0.040	7.4	UN3481 Lithium ion batteries contained in equipment
BV-4NW	Lumia 928	1	1	0.0448	7.6	UN3481 Lithium ion batteries contained in equipment
BV-5QW	Lumia 930	1	1	0.043	9.5	UN3481 Lithium ion batteries contained in equipment
BV-T5E	Lumia 950	1	1	0.048	11.6	UN 3481 Lithium ion batteries packed with equipment
BV-T4D	Lumia 950XL	1	1	0.0527	12.9	UN 3481 Lithium ion batteries packed with equipment
BV-5QW	Lumia Icon 909.3	1	1	0.043	9.5	UN3481 Lithium ion batteries contained in equipment
BL-5CB	Nokia 105	1	1	0.0215	3	UN 3481 Lithium ion batteries packed with equipment
BL-5CB	Nokia 106	1	1	0.0215	3	UN 3481 Lithium ion batteries packed with equipment
BL-5CB	Nokia 107	1	1	0.0215	3	UN 3481 Lithium ion batteries packed with equipment
BL-5C	Nokia 130	1	1	0.0235	4.1	UN 3481 Lithium ion batteries packed with equipment
BL-5C	Nokia 215	1	1	0.0235	4.1	UN 3481 Lithium ion batteries packed with equipment
BL-5C	Nokia 220	1	1	0.0235	4.1	UN 3481 Lithium ion batteries packed with equipment



Battery Model	Product Name	Cells per Battery	Batteries per Product	Battery Weight (kg)	Wh Rating	UNID & Proper Shipping Name
BN-06	Nokia 222	1	1	0.033	5.55	UN 3481 Lithium ion batteries packed with equipment
BL-4U	Nokia 230	1	1	0.0235	4.4	UN 3481 Lithium ion batteries packed with equipment
BL-4U	Nokia 300	1	1	0.0235	4.4	UN 3481 Lithium ion batteries packed with equipment
BL-4U	Nokia 301	1	1	0.0235	4.4	UN 3481 Lithium ion batteries packed with equipment
BL-4U	Nokia 515	1	1	0.0235	4.4	UN 3481 Lithium ion batteries packed with equipment
BL-4C	Nokia 6300	1	1	0.024	3.2	UN 3481 Lithium ion batteries packed with equipment
BL-6Q	Nokia 6700	1	1	0.021	3.6	UN 3481 Lithium ion batteries packed with equipment
BL-5C	Nokia C2-01	1	1	0.02	3.8	UN 3481 Lithium ion batteries packed with equipment
BL-5CT	Nokia C5-00	1	1	0.02	3.9	UN 3481 Lithium ion batteries packed with equipment
BL-5C	Nokia Play 360 Speaker MD-50W	1	1	0.0235	4.1	UN 3481 Lithium ion batteries packed with equipment
BL-5C	Nokia Portable Speaker MD-12	1	1	0.0235	4.1	UN 3481 Lithium ion batteries packed with equipment
BL-4S	Portable USB Charger DC-18	2	1	0.065	6.4	Battery pack

Section XV - Regulatory Information

If hazardous materials are present in the workplace, Material Safety Data Sheets (MSDS)/Safety Data Sheets (SDS) are required by various national and international occupational worker safety regulations. However, MSDS/SDS's are not required for articles (see 29 CFR 1910.1200 (b)(6)(v)). Exceptions also apply for consumer products as defined in 29 CFR 1910.1200 (b)(6)(ix). An article is defined as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.



Section XVI - Other Information

Preparation Date: November 28, 2017

Prepared by: Corinne Holmes Revision: 2017A Phones

Disclaimer: The batteries referenced herein are considered exempt articles and are not subject to the OSHA Hazard Communication Standard; therefore, a SDS is not required. This sheet is being provided as a service to our customers.

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. **MICROSOFT** makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereto.