

# Beats Product Information Sheet

The products referenced herein are “articles” and “consumer products” and therefore are excepted from the 29 CFR 1910.1200 Hazard Communication requirements. The European Classification and Labelling Regulation (EC) No 1272/2008 (CLP) and the Globally Harmonized System (GHS) of Classification and Labelling of Chemicals exempt articles from the Safety Data Sheet requirements. This Product Information Sheet is provided only as a service to our customers and is not based upon any requirement or regulation.

## **Product:** (Li-ion) (“Product”)

Lithium ion single cell batteries  $\leq 20\text{Wh}$  and Lithium ion multi-cell batteries  $\leq 100\text{Wh}$

*(For purpose of transport regulations, a single cell battery is considered a “cell” for classification purposes)*

**Models:** See specific products listed in this document under Beats Product Battery Information, manufactured after January 1, 2010.

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**Version:** 17.02

## **GENERAL SAFETY**

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The mixture is encapsulated in the product. Only if released due to use or processing of the product in a manner not in accordance with the product’s directions for use may it present potential health and safety hazards.

## **FIRST AID**

**Ingestion:** Ingestion of a Li-ion battery is highly unlikely in the workplace, as the contents of a Li-ion battery are mostly solid, and any free liquid (ester-based electrolyte) that might drip out of a damaged battery is limited to a few drops. However, care should be taken not to touch fingers to mouth while handling a damaged battery so as to avoid any ingestion of contents. Do not induce vomiting. Wash out mouth with water. Get medical attention following potential exposure or if feeling unwell.

**Inhalation:** Remove individual to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if individual is feeling unwell.

**Skin contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing. Continue to rinse for at least 15 minutes. Get medical attention. Wash clothing before reuse.

**Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists.

## **HANDLING & STORAGE**

**Handling** – Do not expose product to excessive physical shock or vibration. Do not disassemble. Should an individual cell in the product become ruptured, do not allow contact with water.

**Storage** – Store in a cool, well ventilated area. Storage above 100 degrees can result in loss of product performance, leakage, or rust. Do not expose product to open flame.

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## FIRE SAFETY

In case of fire where products are stored, flood the area with water as needed to control the fire on nearby ordinary combustibles. If any products are involved, water may not extinguish them, but will cool the adjacent products and control the spread of fire. Fire fighters should wear self-contained breathing apparatus. To control/stop a thermal battery event where only the product is involved, use plentiful amounts of clean/dry sand to immediately smother the thermal reaction and reducing smoke. This is most effective, if applied to cover the battery, especially in the first few seconds of the event. CO2, dry chemical, and foam extinguishers may also be used for small fires in areas where products are stored, but may not extinguish the involved products themselves. LITH-X (powdered graphite) or copper powder fire extinguishers, dry ground dolomite or soda ash may also be used (these materials also act as smothering agents).

## DISPOSAL

Beats products contain recyclable materials and should not be put into the municipal waste stream. Refer to the following websites for battery replacement and recycling options (<http://www.apple.com/batteries/replacements.html>, <http://www.apple.com/recycling/>). Do not dispose of in fire.

## TRANSPORTATION

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

PERFORMED TESTS		RESULTS	
38.3.4.1	T1	Altitude Simulation	Pass
38.3.4.2	T2	Thermal Test	Pass
38.3.4.3	T3	Vibration	Pass
38.3.4.4	T4	Shock	Pass
38.3.4.5	T5	External Short Circuit	Pass
38.3.4.6	T6	Impact / Crush	Pass*
38.3.4.7	T7	Overcharge	Pass
38.3.4.8	T8	Forced Discharge	Pass*

\* Applicable to cells only

Beats product cells are rated at 20 Watt-hours or less and batteries are rated at 100 Watt-hours or less. Beats products meet the requirements for transportation under:

- UN Model Regulations 18th revised edition 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

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- U.S. Department of Transportation (DOT) 49 CFR 173.185 and 173.185(c)
- Canadian Transport of Dangerous Goods Regulations (TDGR) Special Provision 34

The following tables provides Beats Product Battery Information:

Model Numbers	Announce	Type	Battery(s) per Product	Battery weight (kg)	Wh Rating	Classification (Air)
810-00012-00	2012	Wireless 1.5	1	0.009	1.59	UN 3481 PI 967
B0500	2013	Studio 2	1	0.011	2.072	UN 3481 PI 967
B0501	2013	Studio 2 Wireless	1	0.011	2.072	UN 3481 PI 967
B0516	2014	Powerbeats 2 Wireless	1	0.026	0.333	UN 3481 PI 967
B0534	2014	Solo2 Wireless	1	0.008	1.29	UN 3481 PI 967
A1747	2016	Powerbeats 3 Wireless	1	0.026	0.333	UN 3481 PI 967
A1796	2016	Solo3 Wireless	1	0.008	1.3	UN 3481 PI 967
A1796	2017	Solo3 Wireless	1	0.008	1.332	UN 3481 PI 967
A1914	2017	Studio3 Wireless	1	0.011	2.072	UN 3481 PI 967

Model Numbers	Announce	Type	Battery(s) per Product	Battery weight (kg)	Wh Rating	Classification (Air)
810-00057-00	2012	Pill 1	1	0.062	7.77	UN 3481 PI 967
B0513	2013	Pill 2	1	0.063	7.77	UN 3481 PI 967
B0514	2013	Pill XL	1	0.192	31.68	UN 3481 PI 967
A1680	2015	Pill+	1	0.10	18.50	UN 3481 PI 967
A1680	2017	Pill+	1	0.10	18	UN 3481 PI 967
A1763	2016	Beats X	1	0.003	0.19	UN 3481 PI 967
A1763	2017	Beats X	1	0.003	0.19	UN 3481 PI 967

## 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.

## GENERAL RECOMMENDATIONS

CAUTION: Under extreme conditions, a risk of fire, explosion and burns exists. Do not short-circuit, crush, puncture, heat, incinerate or disassemble cells.