

# Apple 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" and a multi cell battery is considered a "battery" for classification purposes)*

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

**Edition Date:** January 17, 2019

**Version:** 19.01

## **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 battery in the product become ruptured, do not allow contact with water.

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**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.

## **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. CO<sub>2</sub>, 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**

Apple 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**

Apple's product batteries have been successfully tested and comply with the UN Manual of Test and Criteria, Part III, subsection 38.3, Revision 3, Amendment 1 or any subsequent revision and amendment. Product batteries 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

Apple product cells are rated at 20 Watt-hours or less and batteries are rated at 100 Watt-hours or less. Apple products 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.

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- 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
- 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 table provides Apple Product Battery Information:

| Single cell batteries ≤ 20Wh |          |  |                        |                         |                     |                      |
|------------------------------|----------|--|------------------------|-------------------------|---------------------|----------------------|
| Model Numbers                | Announce | Type   | Battery(s) per Product | Battery Weight (kg)     | Wh Rating           | Classification (Air) |
| A1289                        | 2010     | MacPro   | 1                      | 0.090                   | 9                   | UN 3481 PI 967       |
| A1289                        | 2012     | MacPro   | 1                      | 0.090                   | 9                   | UN 3481 PI 967       |
| A1332                        | 2010     | iPhone 4   | 1                      | 0.025                   | 5.25                | UN 3481 PI 967       |
| A1332                        | 2011     | iPhone 4   | 1                      | 0.025                   | 5.25                | UN 3481 PI 967       |
| A1349                        | 2010     | iPhone 4 (CDMA)  | 1                      | 0.025                   | 5.25                | UN 3481 PI 967       |
| A1349                        | 2011     | iPhone 4 (CDMA)  | 1                      | 0.025                   | 5.25                | UN 3481 PI 967       |
| A1366                        | 2010     | iPod nano 6th gen  | 1                      | 0.003                   | 0.389               | UN 3481 PI 967       |
| A1367                        | 2010     | iPod touch 4th gen   | 1                      | 0.020                   | 3.441               | UN 3481 PI 967       |
| A1373                        | 2010     | iPod shuffle 4th gen   | 1                      | 0.002                   | 0.192               | UN 3481 PI 967       |
| A1373                        | 2014     | iPod shuffle 4th gen   | 1                      | 0.002                   | 0.192               | UN 3481 PI 967       |
| A1387                        | 2011     | iPhone 4s  | 1                      | 0.026                   | 3.441               | UN 3481 PI 967       |
| A1418                        | 2015     | iMac 21.5-inch w/<br>(A1644) Apple Magic Keyboard and<br>(A1657) Magic Mouse 2   | 1<br>1                 | 0.016<br>0.042          | 2.98<br>7.4         | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch w/<br>(A1644) Apple Magic Keyboard and<br>(A1657) Magic Mouse 2   | 1<br>1                 | 0.016<br>0.042          | 2.98<br>7.4         | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch w/<br>(A1644) Apple Magic Keyboard and<br>(A1535) Magic Trackpad 2                                      | 1<br>1                 | 0.016<br>0.037          | 2.98<br>7.73        | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch w/<br>(A1843) Magic Keyboard w/Numeric Keypad and<br>(A1657) Magic Mouse 2                              | 1<br>1                 | 0.016<br>0.042          | 2.98<br>7.4         | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch w/<br>(A1843) Magic Keyboard w/Numeric Keypad and<br>(A1535) Magic Trackpad 2                           | 1<br>1                 | 0.016<br>0.037          | 2.98<br>7.73        | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch w/<br>(A1644) Apple Magic Keyboard,<br>(A1657) Magic Mouse 2 and<br>(A1535) Magic Trackpad 2            | 1<br>1<br>1            | 0.016<br>0.042<br>0.037 | 2.98<br>7.4<br>7.73 | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch w/<br>(A1843) Magic Keyboard w/Numeric Keypad,<br>(A1657) Magic Mouse 2 and<br>(A1535) Magic Trackpad 2 | 1<br>1<br>1            | 0.016<br>0.042<br>0.037 | 2.98<br>7.4<br>7.73 | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch with Retina 4K display w/ (A1644)<br>Apple Magic Keyboard and<br>(A1657) Magic Mouse 2                  | 1<br>1                 | 0.016<br>0.042          | 2.98<br>7.4         | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch with Retina 4K display w/ (A1644)<br>Apple Magic Keyboard and<br>(A1535) Magic Trackpad 2               | 1<br>1                 | 0.016<br>0.037          | 2.98<br>7.73        | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch with Retina 4K display w/<br>(A1843) Magic Keyboard w/Numeric Keypad and<br>(A1657) Magic Mouse 2       | 1<br>1                 | 0.016<br>0.042          | 2.98<br>7.4         | UN 3481 PI 967       |

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| Single cell batteries ≤ 20Wh |          |  |                        |                              |                          |                      |
|------------------------------|----------|--|------------------------|------------------------------|--------------------------|----------------------|
| Model Numbers                | Announce | Type   | Battery(s) per Product | Battery Weight (kg)          | Wh Rating                | Classification (Air) |
| A1418                        | 2017     | iMac 21.5-inch with Retina 4K display w/ (A1843) Magic Keyboard w/Numeric Keypad and (A1535) Magic Trackpad 2                        | -<br>1<br>1            | -<br>0.016<br>0.037          | -<br>2.98<br>7.73        | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch with Retina 4K display w/ (A1644) Apple Magic Keyboard, (A1657) Magic Mouse 2 and (A1535) Magic Trackpad 2            | -<br>1<br>1<br>1       | -<br>0.016<br>0.042<br>0.037 | -<br>2.98<br>7.4<br>7.73 | UN 3481 PI 967       |
| A1418                        | 2017     | iMac 21.5-inch with Retina 4K display w/ (A1843) Magic Keyboard w/Numeric Keypad, (A1657) Magic Mouse 2 and (A1535) Magic Trackpad 2 | -<br>1<br>1<br>1       | -<br>0.016<br>0.042<br>0.037 | -<br>2.98<br>7.4<br>7.73 | UN 3481 PI 967       |
| A1419                        | 2015     | iMac 27-inch w/ (A1644) Apple Magic Keyboard and (A1657) Magic Mouse 2   | -<br>1<br>1            | -<br>0.016<br>0.042          | -<br>2.98<br>7.4         | UN 3481 PI 967       |
| A1419                        | 2017     | iMac 27-inch with Retina 5K display w/ (A1644) Apple Magic Keyboard and (A1657) Magic Mouse 2  | -<br>1<br>1            | -<br>0.016<br>0.042          | -<br>2.98<br>7.4         | UN 3481 PI 967       |
| A1419                        | 2017     | iMac 27-inch with Retina 5K display w/ (A1644) Apple Magic Keyboard and (A1535) Magic Trackpad 2                                     | -<br>1<br>1            | -<br>0.016<br>0.037          | -<br>2.98<br>7.73        | UN 3481 PI 967       |
| A1419                        | 2017     | iMac 27-inch with Retina 5K display w/ (A1843) Magic Keyboard w/Numeric Keypad and (A1657) Magic Mouse 2                             | -<br>1<br>1            | -<br>0.016<br>0.042          | -<br>2.98<br>7.4         | UN 3481 PI 967       |
| A1419                        | 2017     | iMac 27-inch with Retina 5K display w/ (A1843) Magic Keyboard w/Numeric Keypad and (A1535) Magic Trackpad 2                          | -<br>1<br>1            | -<br>0.016<br>0.037          | -<br>2.98<br>7.73        | UN 3481 PI 967       |
| A1419                        | 2017     | iMac 27-inch with Retina 5K display w/ (A1644) Apple Magic Keyboard, (A1657) Magic Mouse 2 and (A1535) Magic Trackpad 2              | -<br>1<br>1<br>1       | -<br>0.016<br>0.042<br>0.037 | -<br>2.98<br>7.4<br>7.73 | UN 3481 PI 967       |
| A1419                        | 2017     | iMac 27-inch with Retina 5K display w/ (A1843) Magic Keyboard w/Numeric Keypad, (A1657) Magic Mouse 2 and (A1535) Magic Trackpad 2   | -<br>1<br>1<br>1       | -<br>0.016<br>0.042<br>0.037 | -<br>2.98<br>7.4<br>7.73 | UN 3481 PI 967       |
| A1421                        | 2012     | iPod touch 5th gen   | 1                      | 0.021                        | 3.8                      | UN 3481 PI 967       |
| A1421                        | 2014     | iPod touch 5th gen   | 1                      | 0.021                        | 3.8                      | UN 3481 PI 967       |
| A1428                        | 2012     | iPhone 5   | 1                      | 0.025                        | 5.45                     | UN 3481 PI 967       |
| A1429                        | 2012     | iPhone 5   | 1                      | 0.026                        | 5.45                     | UN 3481 PI 967       |
| A1432                        | 2012     | iPad mini Wi-Fi only 1st gen   | 1                      | 0.094                        | 16.5                     | UN 3481 PI 967       |
| A1446                        | 2012     | iPod nano 7th gen  | 1                      | 0.007                        | 0.8                      | UN 3481 PI 967       |
| A1453                        | 2013     | iPhone 5s  | 1                      | 0.026                        | 5.92                     | UN 3481 PI 967       |
| A1454                        | 2012     | iPad mini Wi-Fi + Cellular 1st gen   | 1                      | 0.094                        | 16.5                     | UN 3481 PI 967       |
| A1455                        | 2012     | iPad mini Wi-Fi + Cellular (CDMA only) 1st gen   | 1                      | 0.094                        | 16.5                     | UN 3481 PI 967       |
| A1456                        | 2013     | iPhone 5c  | 1                      | 0.026                        | 5.73                     | UN 3481 PI 967       |
| A1456                        | 2014     | iPhone 5c  | 1                      | 0.026                        | 5.73                     | UN 3481 PI 967       |
| A1457                        | 2013     | iPhone 5s  | 1                      | 0.026                        | 5.92                     | UN 3481 PI 967       |
| A1507                        | 2013     | iPhone 5c  | 1                      | 0.026                        | 5.73                     | UN 3481 PI 967       |
| A1507                        | 2014     | iPhone 5c  | 1                      | 0.026                        | 5.73                     | UN 3481 PI 967       |
| A1509                        | 2013     | iPod touch 5th gen   | 1                      | 0.021                        | 3.8                      | UN 3481 PI 967       |
| A1513                        | 2015     | Siri Remote  | 1                      | 0.009                        | 1.56                     | UN 3481 PI 967       |
| A1516                        | 2013     | iPhone 5c  | 1                      | 0.026                        | 5.73                     | UN 3481 PI 967       |
| A1516                        | 2014     | iPhone 5c  | 1                      | 0.026                        | 5.73                     | UN 3481 PI 967       |
| A1518                        | 2013     | iPhone 5s  | 1                      | 0.026                        | 5.92                     | UN 3481 PI 967       |
| A1522                        | 2014     | iPhone 6 Plus  | 1                      | 0.046                        | 11.28                    | UN 3481 PI 967       |

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| Single cell batteries ≤ 20Wh |          |   |                        |                     |           |                      |
|------------------------------|----------|---|------------------------|---------------------|-----------|----------------------|
| Model Numbers                | Announce | Type                                      | Battery(s) per Product | Battery Weight (kg) | Wh Rating | Classification (Air) |
| A1523                        | 2016     | AirPod (right)                            | 1                      | 0.001               | 0.096     | UN 3481 PI 967       |
| A1524                        | 2014     | iPhone 6 Plus                             | 1                      | 0.046               | 11.28     | UN 3481 PI 967       |
| A1526                        | 2013     | iPhone 5c                                 | 1                      | 0.026               | 5.73      | UN 3481 PI 967       |
| A1526                        | 2014     | iPhone 5c                                 | 1                      | 0.026               | 5.73      | UN 3481 PI 967       |
| A1528                        | 2013     | iPhone 5s                                 | 1                      | 0.026               | 5.92      | UN 3481 PI 967       |
| A1529                        | 2013     | iPhone 5c                                 | 1                      | 0.026               | 5.73      | UN 3481 PI 967       |
| A1529                        | 2014     | iPhone 5c                                 | 1                      | 0.026               | 5.73      | UN 3481 PI 967       |
| A1530                        | 2013     | iPhone 5s                                 | 1                      | 0.026               | 5.92      | UN 3481 PI 967       |
| A1532                        | 2013     | iPhone 5c                                 | 1                      | 0.026               | 5.73      | UN 3481 PI 967       |
| A1532                        | 2014     | iPhone 5c                                 | 1                      | 0.026               | 5.73      | UN 3481 PI 967       |
| A1533                        | 2013     | iPhone 5s                                 | 1                      | 0.026               | 5.92      | UN 3481 PI 967       |
| A1535                        | 2015     | Magic Trackpad 2                          | 1                      | 0.037               | 7.73      | UN 3481 PI 967       |
| A1535                        | 2018     | Magic Trackpad 2                          | 1                      | 0.037               | 7.73      | UN 3481 PI 967       |
| A1538                        | 2015     | iPad mini 4 Wi-Fi only                    | 1                      | 0.090               | 19.32     | UN 3481 PI 967       |
| A1549                        | 2014     | iPhone 6                                  | 1                      | 0.028               | 6.91      | UN 3481 PI 967       |
| A1550                        | 2015     | iPad mini 4 Wi-Fi + Cellular              | 1                      | 0.090               | 19.32     | UN 3481 PI 967       |
| A1553                        | 2015     | Apple Watch 1st gen 38mm                  | 1                      | 0.005               | 0.93      | UN 3481 PI 967       |
| A1554                        | 2015     | Apple Watch 1st gen 42mm                  | 1                      | 0.005               | 0.93      | UN 3481 PI 967       |
| A1574                        | 2015     | iPod touch 6th gen                        | 1                      | 0.019               | 4.02      | UN 3481 PI 967       |
| A1585                        | 2015     | iPhone Smart Battery Case                 | 1                      | 0.036               | 7.13      | UN 3480 PI 965       |
| A1586                        | 2014     | iPhone 6                                  | 1                      | 0.028               | 6.91      | UN 3481 PI 967       |
| A1589                        | 2014     | iPhone 6                                  | 1                      | 0.028               | 6.91      | UN 3481 PI 967       |
| A1593                        | 2014     | iPhone 6 Plus                             | 1                      | 0.046               | 11.28     | UN 3481 PI 967       |
| A1660                        | 2017     | iPhone 7 Plus Product Red Special Edition | 1                      | 0.029               | 7.45      | UN 3481 PI 967       |
| A1661                        | 2017     | iPhone 7 Plus Product Red Special Edition | 1                      | 0.039               | 11.10     | UN 3481 PI 967       |
| A1602                        | 2016     | Airpod Charging Case                      | 1                      | 0.009               | 1.52      | UN 3480 PI 965       |
| A1603                        | 2015     | Apple Pencil                              | 1                      | 0.004               | 0.332     | UN 3481 PI 967       |
| A1625                        | 2015     | AppleTV 4th gen w/<br>(A1513) Siri Remote | -<br>1                 | -<br>0.009          | -<br>1.56 | UN 3481 PI 967       |
| A1633                        | 2015     | iPhone 6s                                 | 1                      | 0.025               | 6.39      | UN 3481 PI 967       |
| A1634                        | 2015     | iPhone 6s Plus                            | 1                      | 0.041               | 10.61     | UN 3481 PI 967       |
| A1644                        | 2015     | Apple Magic Keyboard                      | 1                      | 0.016               | 2.98      | UN 3481 PI 967       |
| A1657                        | 2015     | Magic Mouse 2                             | 1                      | 0.042               | 7.07      | UN 3481 PI 967       |
| A1657                        | 2018     | Magic Mouse 2                             | 1                      | 0.042               | 7.07      | UN 3481 PI 967       |
| A1660 (CN)                   | 2016     | iPhone 7                                  | 1                      | 0.029               | 7.45      | UN 3481 PI 967       |
| A1660                        | 2017     | iPhone 7                                  | 1                      | 0.029               | 7.45      | UN 3481 PI 967       |
| A1661                        | 2016     | iPhone 7 Plus                             | 1                      | 0.039               | 11.1      | UN 3481 PI 967       |
| A1661                        | 2017     | iPhone 7 Plus                             | 1                      | 0.039               | 11.1      | UN 3481 PI 967       |
| A1662                        | 2016     | iPhone SE                                 | 1                      | 0.026               | 6.21      | UN 3481 PI 967       |
| A1687                        | 2015     | iPhone 6s Plus                            | 1                      | 0.041               | 10.61     | UN 3481 PI 967       |

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| Single cell batteries ≤ 20Wh |          |   |                        |                         |                         |                      |
|------------------------------|----------|---|------------------------|-------------------------|-------------------------|----------------------|
| Model Numbers                | Announce | Type                                      | Battery(s) per Product | Battery Weight (kg)     | Wh Rating               | Classification (Air) |
| A1688                        | 2015     | iPhone 6s                                 | 1                      | 0.025                   | 6.39                    | UN 3481 PI 967       |
| A1690                        | 2015     | iPhone 6s Plus                            | 1                      | 0.041                   | 10.61                   | UN 3481 PI 967       |
| A1691                        | 2015     | iPhone 6s                                 | 1                      | 0.025                   | 6.39                    | UN 3481 PI 967       |
| A1699                        | 2015     | iPhone 6s Plus                            | 1                      | 0.041                   | 10.61                   | UN 3481 PI 967       |
| A1700                        | 2015     | iPhone 6s                                 | 1                      | 0.025                   | 6.39                    | UN 3481 PI 967       |
| A1722                        | 2016     | AirPod (left)                             | 1                      | 0.001                   | 0.096                   | UN 3481 PI 967       |
| A1722<br>A1523<br>A1602      | 2016     | AirPods in Charging Case                  | 1<br>1<br>1            | 0.001<br>0.001<br>0.009 | 0.096<br>0.096<br>1.520 | UN 3481 PI 967       |
| A1723                        | 2016     | iPhone SE                                 | 1                      | 0.025                   | 6.21                    | UN 3481 PI 967       |
| A1724                        | 2016     | iPhone SE                                 | 1                      | 0.025                   | 6.21                    | UN 3481 PI 967       |
| A1757                        | 2016     | Apple Watch Series 2 38mm                 | 1                      | 0.005                   | 1.03                    | UN 3481 PI 967       |
| A1758                        | 2016     | Apple Watch Series 2 42mm                 | 1                      | 0.006                   | 1.27                    | UN 3481 PI 967       |
| A1765                        | 2016     | SmartCase iPhone 7                        | 1                      | 0.0379                  | 8.98                    | UN 3480 PI 965       |
| A1778                        | 2016     | iPhone 7                                  | 1                      | 0.029                   | 7.45                    | UN 3481 PI 967       |
| A1778                        | 2017     | iPhone 7                                  | 1                      | 0.029                   | 7.45                    | UN 3481 PI 967       |
| A1779 (JP)                   | 2016     | iPhone 7                                  | 1                      | 0.029                   | 7.45                    | UN 3481 PI 967       |
| A1779                        | 2017     | iPhone 7                                  | 1                      | 0.029                   | 7.45                    | UN 3481 PI 967       |
| A1780 (non-US)               | 2016     | iPhone 7                                  | 1                      | 0.029                   | 7.45                    | UN 3481 PI 967       |
| A1780                        | 2017     | iPhone 7                                  | 1                      | 0.029                   | 7.45                    | UN 3481 PI 967       |
| A1784                        | 2016     | iPhone 7 Plus                             | 1                      | 0.039                   | 11.1                    | UN 3481 PI 967       |
| A1784                        | 2017     | iPhone 7 Plus                             | 1                      | 0.039                   | 11.1                    | UN 3481 PI 967       |
| A1784                        | 2017     | iPhone 7 Plus Product Red Special Edition | 1                      | 0.039                   | 11.1                    | UN 3481 PI 967       |
| A1785                        | 2016     | iPhone 7 Plus                             | 1                      | 0.039                   | 11.1                    | UN 3481 PI 967       |
| A1785                        | 2017     | iPhone 7 Plus Product Red Special Edition | 1                      | 0.039                   | 11.1                    | UN 3481 PI 967       |
| A1786                        | 2016     | iPhone 7 Plus                             | 1                      | 0.039                   | 11.1                    | UN 3481 PI 967       |
| A1786                        | 2017     | iPhone 7 Plus                             | 1                      | 0.039                   | 11.1                    | UN 3481 PI 967       |
| A1786                        | 2017     | iPhone 7 Plus Product Red Special Edition | 1                      | 0.039                   | 11.1                    | UN 3481 PI 967       |
| A1797                        | 2016     | iPhone 7 Plus                             | 1                      | 0.039                   | 11.1                    | UN 3481 PI 967       |
| A1799                        | 2016     | iPhone 7                                  | 1                      | 0.029                   | 7.45                    | UN 3481 PI 967       |
| A1802                        | 2016     | Apple Watch Series 1 38mm                 | 1                      | 0.005                   | 0.93                    | UN 3481 PI 967       |
| A1803                        | 2016     | Apple Watch Series 1 42mm                 | 1                      | 0.005                   | 0.93                    | UN 3481 PI 967       |
| A1816                        | 2016     | Apple Watch Series 2 38mm                 | 1                      | 0.005                   | 1.03                    | UN 3481 PI 967       |
| A1817                        | 2016     | Apple Watch Series 2 42mm                 | 1                      | 0.006                   | 1.27                    | UN 3481 PI 967       |
| A1842                        | 2017     | Apple TV 4K w/<br>(A1962) Remote          | -<br>1                 | -<br>0.009              | -<br>1.56               | UN 3481 PI 967       |
| A1843                        | 2017     | Magic Keyboard with Numeric Keypad        | 1                      | 0.016                   | 2.98                    | UN 3481 PI 967       |
| A1843                        | 2018     | Magic Keyboard with Numeric Keypad        | 1                      | 0.016                   | 2.98                    | UN 3481 PI 967       |
| A1858                        | 2017     | Apple Watch Series 2                      | 1                      | 0.005                   | 1                       | UN 3481 PI 967       |
| A1859                        | 2017     | Apple Watch Series 2                      | 1                      | 0.005                   | 1                       | UN 3481 PI 967       |
| A1860                        | 2017     | Apple Watch LTE Series 3                  | 1                      | 0.005                   | 1.07                    | UN 3481 PI 967       |

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| Single cell batteries ≤ 20Wh |          |  |                        |                              |                          |                      |
|------------------------------|----------|--|------------------------|------------------------------|--------------------------|----------------------|
| Model Numbers                | Announce | Type   | Battery(s) per Product | Battery Weight (kg)          | Wh Rating                | Classification (Air) |
| A1860                        | 2018     | Apple Watch LTE Series 3   | 1                      | 0.005                        | 1.07                     | UN 3481 PI 967       |
| A1861                        | 2017     | Apple Watch LTE Series 3   | 1                      | 0.005                        | 1.07                     | UN 3481 PI 967       |
| A1861                        | 2018     | Apple Watch LTE Series 3   | 1                      | 0.006                        | 1.34                     | UN 3481 PI 967       |
| A1862                        | 2017     | iMac Pro 27-inch with Retina 5K display w/ (A1843) Magic Keyboard w/Numeric Keypad and (A1657) Magic Mouse 2                           | -<br>1<br>1            | -<br>0.016<br>0.042          | -<br>2.98<br>7.4         | UN 3481 PI 967       |
| A1862                        | 2017     | iMac Pro 27-inch with Retina 5K display w/ (A1843) Magic Keyboard w/Numeric Keypad and (A1535) Magic Trackpad 2                        | -<br>1<br>1            | -<br>0.016<br>0.037          | -<br>2.98<br>7.73        | UN 3481 PI 967       |
| A1862                        | 2017     | iMac Pro 27-inch with Retina 5K display w/ (A1843) Magic Keyboard w/Numeric Keypad, (A1657) Magic Mouse 2 and (A1535) Magic Trackpad 2 | -<br>1<br>1<br>1       | -<br>0.016<br>0.042<br>0.037 | -<br>2.98<br>7.4<br>7.73 | UN 3481 PI 967       |
| A1863                        | 2017     | 4.7" iPhone 8  | 1                      | 0.026                        | 6.96                     | UN 3481 PI 967       |
| A1863                        | 2018     | 4.7" iPhone 8  | 1                      | 0.026                        | 6.96                     | UN 3481 PI 967       |
| A1864                        | 2017     | 5.5" iPhone 8 Plus   | 1                      | 0.038                        | 10.28                    | UN 3481 PI 967       |
| A1864                        | 2018     | 5.5" iPhone 8 Plus   | 1                      | 0.038                        | 10.28                    | UN 3481 PI 967       |
| A1889                        | 2017     | Apple Watch LTE Series 3   | 1                      | 0.005                        | 1.07                     | UN 3481 PI 967       |
| A1889                        | 2018     | Apple Watch LTE Series 3   | 1                      | 0.005                        | 1.07                     | UN 3481 PI 967       |
| A1890                        | 2017     | Apple Watch LTE Series 3   | 1                      | 0.005                        | 1.07                     | UN 3481 PI 967       |
| A1890                        | 2018     | Apple Watch LTE Series 3   | 1                      | 0.005                        | 1.07                     | UN 3481 PI 967       |
| A1891                        | 2017     | Apple Watch LTE Series 3   | 1                      | 0.005                        | 1.07                     | UN 3481 PI 967       |
| A1891                        | 2018     | Apple Watch LTE Series 3   | 1                      | 0.006                        | 1.34                     | UN 3481 PI 967       |
| A1892                        | 2017     | Apple Watch LTE Series 3   | 1                      | 0.005                        | 1.07                     | UN 3481 PI 967       |
| A1892                        | 2018     | Apple Watch LTE Series 3   | 1                      | 0.006                        | 1.34                     | UN 3481 PI 967       |
| A1897                        | 2017     | 5.5" iPhone 8 Plus   | 1                      | 0.038                        | 10.28                    | UN 3481 PI 967       |
| A1897                        | 2018     | 5.5" iPhone 8 Plus   | 1                      | 0.038                        | 10.28                    | UN 3481 PI 967       |
| A1898                        | 2017     | 5.5" iPhone 8 Plus   | 1                      | 0.038                        | 10.28                    | UN 3481 PI 967       |
| A1898                        | 2018     | 5.5" iPhone 8 Plus   | 1                      | 0.038                        | 10.28                    | UN 3481 PI 967       |
| A1899                        | 2017     | 5.5" iPhone 8 Plus   | 1                      | 0.038                        | 10.28                    | UN 3481 PI 967       |
| A1899                        | 2018     | 5.5" iPhone 8 Plus   | 1                      | 0.038                        | 10.28                    | UN 3481 PI 967       |
| A1905                        | 2017     | 4.7" iPhone 8  | 1                      | 0.026                        | 6.96                     | UN 3481 PI 967       |
| A1905                        | 2018     | 4.7" iPhone 8  | 1                      | 0.026                        | 6.96                     | UN 3481 PI 967       |
| A1906                        | 2017     | 4.7" iPhone 8  | 1                      | 0.026                        | 6.96                     | UN 3481 PI 967       |
| A1906                        | 2018     | 4.7" iPhone 8  | 1                      | 0.026                        | 6.96                     | UN 3481 PI 967       |
| A1907                        | 2017     | 4.7" iPhone 8  | 1                      | 0.026                        | 6.96                     | UN 3481 PI 967       |
| A1907                        | 2018     | 4.7" iPhone 8  | 1                      | 0.026                        | 6.96                     | UN 3481 PI 967       |
| A1920                        | 2018     | iPhone Xs  | 1                      | 0.041                        | 10.13                    | UN 3481 PI 967       |
| A1962                        | 2017     | APPLE SIRI REMOTE  | 1                      | 0.009                        | 1.56                     | UN 3481 PI 967       |
| A1975                        | 2018     | Apple Watch Series 4 40  | 1                      | 0.004                        | 0.86                     | UN 3481 PI 967       |
| A1976                        | 2018     | Apple Watch Series 4 44  | 1                      | 0.005                        | 1.12                     | UN 3481 PI 967       |
| A1977                        | 2018     | Apple Watch Series 4 40  | 1                      | 0.004                        | 0.86                     | UN 3481 PI 967       |

# Apple Product Information Sheet

| Single cell batteries ≤ 20Wh |          |                                  |                        |                     |           |                      |
|------------------------------|----------|----------------------------------|------------------------|---------------------|-----------|----------------------|
| Model Numbers                | Announce | Type                             | Battery(s) per Product | Battery Weight (kg) | Wh Rating | Classification (Air) |
| A1978                        | 2018     | Apple Watch Series 4 44          | 1                      | 0.005               | 1.12      | UN 3481 PI 967       |
| A2007                        | 2018     | Apple Watch Series 4 40          | 1                      | 0.004               | 0.86      | UN 3481 PI 967       |
| A2008                        | 2018     | Apple Watch Series 4 44          | 1                      | 0.005               | 1.12      | UN 3481 PI 967       |
| A2051                        | 2018     | Apple Pencil 2 <sup>nd</sup> Gen | 1                      | 0.004               | 0.21      | UN 3481 PI 967       |
| A2097                        | 2018     | iPhone Xs                        | 1                      | 0.041               | 10.13     | UN 3481 PI 967       |
| A2098                        | 2018     | iPhone Xs                        | 1                      | 0.041               | 10.13     | UN 3481 PI 967       |
| A2099                        | 2018     | iPhone Xs                        | 1                      | 0.041               | 10.13     | UN 3481 PI 967       |
| A2100                        | 2018     | iPhone Xs                        | 1                      | 0.041               | 10.13     | UN 3481 PI 967       |



**The following table provides Apple Product Battery Information:**

| <b>Multi-cell batteries ≤ 100Wh</b> |                 |   |                               |                            |                  |                             |
|-------------------------------------|-----------------|---|-------------------------------|----------------------------|------------------|-----------------------------|
| <b>Model Numbers</b>                | <b>Announce</b> | <b>Type</b>   | <b>Battery(s) per Product</b> | <b>Battery Weight (kg)</b> | <b>Wh Rating</b> | <b>Classification (Air)</b> |
| A1219                               | 2010            | iPad Wi-Fi only 1st gen                               | 1                             | 0.160                      | 24.8             | UN 3481 PI 967              |
| A1278                               | 2011            | MacBook Pro 13-inch                                   | 1                             | 0.369                      | 63.5             | UN 3481 PI 967              |
| A1278                               | 2012            | MacBook Pro 13-inch                                   | 1                             | 0.369                      | 63.5             | UN 3481 PI 967              |
| A1286                               | 2011            | MacBook Pro 15-inch                                   | 1                             | 0.470                      | 77.5             | UN 3481 PI 967              |
| A1286                               | 2012            | MacBook Pro 15-inch                                   | 1                             | 0.470                      | 77.5             | UN 3481 PI 967              |
| A1337                               | 2010            | iPad Wi-Fi + Cellular 1st gen                         | 1                             | 0.160                      | 24.8             | UN 3481 PI 967              |
| A1347                               | 2010            | MacBook 13-inch                                       | 1                             | 0.363                      | 60               | UN 3481 PI 967              |
| A1369                               | 2010            | MacBook Air 13-inch                                   | 1                             | 0.310                      | 35               | UN 3481 PI 967              |
| A1369                               | 2011            | MacBook Air 13-inch                                   | 1                             | 0.310                      | 50               | UN 3481 PI 967              |
| A1369                               | 2012            | MacBook Air 13-inch                                   | 1                             | 0.310                      | 50               | UN 3481 PI 967              |
| A1370                               | 2010            | MacBook Air 11-inch                                   | 1                             | 0.234                      | 35               | UN 3481 PI 967              |
| A1370                               | 2011            | MacBook Air 11-inch                                   | 1                             | 0.234                      | 35               | UN 3481 PI 967              |
| A1395                               | 2011            | iPad 2nd Gen Wi-Fi only                               | 1                             | 0.144                      | 25               | UN 3481 PI 967              |
| A1395                               | 2012            | iPad 2nd Gen Wi-Fi only                               | 1                             | 0.144                      | 25               | UN 3481 PI 967              |
| A1396                               | 2011            | iPad 2nd Gen Wi-Fi + Cellular                         | 1                             | 0.144                      | 25               | UN 3481 PI 967              |
| A1397                               | 2011            | iPad 2nd Gen Wi-Fi + Cellular (CDMA only)             | 1                             | 0.144                      | 25               | UN 3481 PI 967              |
| A1398                               | 2012            | MacBook Pro 15-inch with Retina display               | 1                             | 0.480                      | 95               | UN 3481 PI 967              |
| A1398                               | 2013            | MacBook Pro 15-inch with Retina display               | 1                             | 0.485                      | 95               | UN 3481 PI 967              |
| A1398                               | 2014            | MacBook Pro 15-inch with Retina display               | 1                             | 0.485                      | 95               | UN 3481 PI 967              |
| A1398                               | 2015            | MacBook Pro 15-inch with Retina display               | 1                             | 0.459                      | 99.5             | UN 3481 PI 967              |
| A1403                               | 2012            | iPad 3rd Gen Wi-Fi + Cellular (CDMA only)             | 1                             | 0.214                      | 43               | UN 3481 PI 967              |
| A1416                               | 2012            | iPad 3rd Gen Wi-Fi only                               | 1                             | 0.485                      | 43               | UN 3481 PI 967              |
| A1425                               | 2012            | MacBook Pro 13-inch with Retina display               | 1                             | 0.410                      | 74               | UN 3481 PI 967              |
| A1425                               | 2013            | MacBook Pro 13-inch with Retina display               | 1                             | 0.410                      | 74               | UN 3481 PI 967              |
| A1430                               | 2012            | iPad 3rd Gen Wi-Fi + Cellular                         | 1                             | 0.214                      | 43               | UN 3481 PI 967              |
| A1458                               | 2012            | iPad with Retina display Wi-Fi only                   | 1                             | 0.214                      | 43               | UN 3481 PI 967              |
| A1459                               | 2012            | iPad with Retina display Wi-Fi + Cellular             | 1                             | 0.214                      | 43               | UN 3481 PI 967              |
| A1460                               | 2012            | iPad with Retina display Wi-Fi + Cellular (CDMA only) | 1                             | 0.214                      | 43               | UN 3481 PI 967              |
| A1465                               | 2012            | MacBook Air 11-inch                                   | 1                             | 0.310                      | 50               | UN 3481 PI 967              |
| A1465                               | 2013            | MacBook Air 11-inch                                   | 1                             | 0.235                      | 38.75            | UN 3481 PI 967              |
| A1465                               | 2014            | MacBook Air 11-inch                                   | 1                             | 0.235                      | 38.75            | UN 3481 PI 967              |
| A1465                               | 2015            | MacBook Air 11-inch                                   | 1                             | 0.235                      | 38.75            | UN 3481 PI 967              |
| A1466                               | 2012            | MacBook Air 13-inch                                   | 1                             | 0.312                      | 54.4             | UN 3481 PI 967              |
| A1466                               | 2013            | MacBook Air 13-inch                                   | 1                             | 0.312                      | 54.4             | UN 3481 PI 967              |
| A1466                               | 2014            | MacBook Air 13-inch                                   | 1                             | 0.312                      | 54.4             | UN 3481 PI 967              |
| A1466                               | 2015            | MacBook Air 13-inch                                   | 1                             | 0.312                      | 54.4             | UN 3481 PI 967              |
| A1466                               | 2017            | MacBook Air 13-inch                                   | 1                             | 0.312                      | 54.4             | UN 3481 PI 967              |

| Multi-cell batteries ≤ 100Wh |          |  |                        |                     |           |                      |
|------------------------------|----------|--|------------------------|---------------------|-----------|----------------------|
| Model Numbers                | Announce | Type   | Battery(s) per Product | Battery Weight (kg) | Wh Rating | Classification (Air) |
| A1474                        | 2013     | iPad Air Wi-Fi only (9-inch)   | 1                      | 0.165               | 32.9      | UN 3481 PI 967       |
| A1475                        | 2013     | iPad Air Wi-Fi + Cellular (9-inch)                                     | 1                      | 0.165               | 32.9      | UN 3481 PI 967       |
| A1476                        | 2014     | iPad Air Wi-Fi + Cellular (TDD, China) (9-inch)                        | 1                      | 0.165               | 32.9      | UN 3481 PI 967       |
| A1489                        | 2013     | iPad mini 2 with Retina Display Wi-Fi only (7-inch)                    | 1                      | 0.115               | 24.3      | UN 3481 PI 967       |
| A1490                        | 2013     | iPad mini 2 with Retina Display Wi-Fi + Cellular (7-inch)              | 1                      | 0.115               | 24.3      | UN 3481 PI 967       |
| A1491                        | 2014     | iPad mini 2 with Retina Display Wi-Fi + Cellular (TDD, China) (7-inch) | 1                      | 0.115               | 24.3      | UN 3481 PI 967       |
| A1502                        | 2013     | MacBook Air 13-inch with Retina display                                | 1                      | 0.341               | 71.8      | UN 3481 PI 967       |
| A1502                        | 2014     | MacBook Air 13-inch with Retina display                                | 1                      | 0.341               | 71.8      | UN 3481 PI 967       |
| A1502                        | 2015     | MacBook Air 13-inch with Retina display                                | 1                      | 0.355               | 74.9      | UN 3481 PI 967       |
| A1534                        | 2016     | Macbook Retina 12-inch   | 1                      | 0.194               | 41.41     | UN 3481 PI 967       |
| A1534                        | 2015     | MacBook Retina 12-inch   | 1                      | 0.194               | 40        | UN 3481 PI 967       |
| A1566                        | 2014     | iPad Air 2 Wi-Fi only  | 1                      | 0.132               | 27.82     | UN 3481 PI 967       |
| A1567                        | 2014     | iPad Air 2 Wi-Fi + Cellular  | 1                      | 0.132               | 27.62     | UN 3481 PI 967       |
| A1584                        | 2015     | iPad Pro 12.9 inch Wi-Fi only  | 1                      | 0.175               | 38.8      | UN 3481 PI 967       |
| A1599                        | 2014     | iPad mini 3 Wi-Fi only (7-inch)  | 1                      | 0.115               | 24.3      | UN 3481 PI 967       |
| A1600                        | 2014     | iPad mini 3 Wi-Fi + Cellular (7-inch)                                  | 1                      | 0.115               | 24.3      | UN 3481 PI 967       |
| A1601                        | 2014     | iPad mini 3 Wi-Fi + Cellular (TDD, China) (7-inch)                     | 1                      | 0.115               | 24.3      | UN 3481 PI 967       |
| A1652                        | 2015     | iPad Pro 12.9-inch Wi-Fi + Cellular                                    | 1                      | 0.175               | 38.8      | UN 3481 PI 967       |
| A1670                        | 2017     | iPad Pro 12.9-inch Wi-Fi   | 1                      | 0.196               | 41.4      | UN 3481 PI 967       |
| A1671                        | 2017     | iPad Pro 12.9-inch Wi-Fi + Cellular                                    | 1                      | 0.196               | 41.4      | UN 3481 PI 967       |
| A1673                        | 2016     | iPad Pro 9.7-inch Wi-Fi only   | 1                      | 0.136               | 27.91     | UN 3481 PI 967       |
| A1674                        | 2016     | iPad Pro 9.7-inch Wi-Fi + Cellular                                     | 1                      | 0.136               | 27.91     | UN 3481 PI 967       |
| A1675                        | 2016     | iPad Pro 9.7-inch Wi-Fi + Cellular                                     | 1                      | 0.136               | 27.91     | UN 3481 PI 967       |
| A1701                        | 2017     | iPad Pro 10.5-inch Wi-Fi   | 1                      | 0.147               | 30.8      | UN 3481 PI 967       |
| A1705                        | 2017     | Macbook 12-inch  | 1                      | 0.194               | 41.41     | UN 3481 PI 967       |
| A1706                        | 2016     | MacBook Pro 13-inch  | 1                      | 0.223               | 49.2      | UN 3481 PI 967       |
| A1707                        | 2016     | MacBook Pro 15-inch  | 1                      | 0.240               | 76        | UN 3481 PI 967       |
| A1707                        | 2017     | MacBook Pro 15-inch with Touch Bar                                     | 1                      | 0.240               | 76        | UN 3481 PI 967       |
| A1708                        | 2016     | MacBook Pro 13-inch  | 1                      | 0.246               | 54.5      | UN 3481 PI 967       |
| A1708                        | 2017     | MacBook Pro 13-inch  | 1                      | 0.246               | 54.5      | UN 3481 PI 967       |
| A1709                        | 2017     | iPad Pro 10.5-inch Wi-Fi + Cellular                                    | 1                      | 0.147               | 30.8      | UN 3481 PI 967       |
| A1818                        | 2017     | Macbook 12-inch  | 1                      | 0.194               | 41.41     | UN 3481 PI 967       |
| A1819                        | 2017     | MacBook Pro 13-inch  | 1                      | 0.223               | 49.2      | UN 3481 PI 967       |
| A1821                        | 2017     | iPad Pro 12.9-inch Wi-Fi + Cellular                                    | 1                      | 0.196               | 41.4      | UN 3481 PI 967       |
| A1822                        | 2017     | iPad 9.7 inch (5 <sup>th</sup> gen)                                    | 1                      | 0.167               | 32.9      | UN 3481 PI 967       |
| A1823                        | 2017     | iPad 9.7 inch + Cellular (5 <sup>th</sup> gen)                         | 1                      | 0.167               | 32.9      | UN 3481 PI 967       |
| A1852                        | 2017     | iPad Pro 10.5-inch Wi-Fi + Cellular                                    | 1                      | 0.147               | 30.8      | UN 3481 PI 967       |
| A1865                        | 2017     | 5.8" iPhone X (GSM and CDMA)   | 1                      | 0.042               | 10.35     | UN 3481 PI 967       |

| Multi-cell batteries ≤ 100Wh |          |   |                        |                     |           |                      |
|------------------------------|----------|---|------------------------|---------------------|-----------|----------------------|
| Model Numbers                | Announce | Type  | Battery(s) per Product | Battery Weight (kg) | Wh Rating | Classification (Air) |
| A1876                        | 2018     | iPad Pro Wi-Fi 13-inch 3 <sup>rd</sup> Gen            | 1                      | 0.168               | 36.59     | UN 3481 PI 967       |
| A1893                        | 2018     | iPad 9.7 inch Wi-Fi                                   | 1                      | 0.167               | 32.9      | UN 3481 PI 967       |
| A1895                        | 2018     | iPad Pro Wi-Fi + Cellular 13-inch 3 <sup>rd</sup> Gen | 1                      | 0.168               | 36.59     | UN 3481 PI 967       |
| A1901                        | 2017     | 5.8" iPhone X (GSM)                                   | 1                      | 0.042               | 10.35     | UN 3481 PI 967       |
| A1902                        | 2017     | 5.8" iPhone X (Japan)                                 | 1                      | 0.042               | 10.35     | UN 3481 PI 967       |
| A1903                        | 2017     | 5.8" iPhone X   | 1                      | 0.042               | 10.35     | UN 3481 PI 967       |
| A1904                        | 2017     | 5.8" iPhone X   | 1                      | 0.042               | 10.35     | UN 3481 PI 967       |
| A1921                        | 2018     | iPhone Xs Max   | 1                      | 0.050               | 12.08     | UN 3481 PI 967       |
| A1932                        | 2018     | Macbook Air 13.3 inch                                 | 1                      | 0.250               | 50.3      | UN 3481 PI 967       |
| A1934                        | 2018     | iPad Pro Wi-Fi + Cellular 11-inch 3 <sup>rd</sup> Gen | 1                      | 0.132               | 29.45     | UN 3481 PI 967       |
| A1954                        | 2018     | iPad 9.7 inch Wi-Fi + Cellular                        | 1                      | 0.167               | 32.9      | UN 3481 PI 967       |
| A1979                        | 2018     | iPad Pro WLAN + Cellular 11-inch 3 <sup>rd</sup> Gen  | 1                      | 0.132               | 29.45     | UN 3481 PI 967       |
| A1980                        | 2018     | iPad Pro Wi-Fi 11-inch 3 <sup>rd</sup> Gen            | 1                      | 0.132               | 29.45     | UN 3481 PI 967       |
| A1983                        | 2018     | iPad Pro WLAN + Cellular 13-inch 3 <sup>rd</sup> Gen  | 1                      | 0.168               | 36.59     | UN 3481 PI 967       |
| A1989                        | 2018     | MacBook Pro 13"                                       | 1                      | 0.365               | 83.6      | UN 3481 PI 967       |
| A1990                        | 2018     | MacBook Pro 15"                                       | 1                      | 0.365               | 83.6      | UN 3481 PI 967       |
| A1984                        | 2018     | iPhone XR   | 1                      | 0.046               | 11.16     | UN 3481 PI 967       |
| A2013                        | 2018     | iPad Pro Wi-Fi + Cellular 11-inch 3 <sup>rd</sup> Gen | 1                      | 0.132               | 29.45     | UN 3481 PI 967       |
| A2014                        | 2018     | iPad Pro Wi-Fi + Cellular 13-inch 3 <sup>rd</sup> Gen | 1                      | 0.168               | 36.59     | UN 3481 PI 967       |
| A2070                        | 2019     | iPhone Xs Smart Battery Case                          | 1                      | 0.044               | 10.4      | UN 3480 PI 965       |
| A2101                        | 2018     | iPhone Xs Max   | 1                      | 0.050               | 12.08     | UN 3481 PI 967       |
| A2102                        | 2018     | iPhone Xs Max   | 1                      | 0.050               | 12.08     | UN 3481 PI 967       |
| A2103                        | 2018     | iPhone Xs Max   | 1                      | 0.050               | 12.08     | UN 3481 PI 967       |
| A2104                        | 2018     | iPhone Xs Max   | 1                      | 0.050               | 12.08     | UN 3481 PI 967       |
| A2105                        | 2018     | iPhone XR   | 1                      | 0.046               | 11.16     | UN 3481 PI 967       |
| A2106                        | 2018     | iPhone XR   | 1                      | 0.046               | 11.16     | UN 3481 PI 967       |
| A2107                        | 2018     | iPhone XR   | 1                      | 0.046               | 11.16     | UN 3481 PI 967       |
| A2108                        | 2018     | iPhone XR   | 1                      | 0.046               | 11.16     | 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

## Links to External Coin Cell Supplier Documents

Panasonic

<http://industrial.panasonic.com/ww/downloads/product-safety-data-sheet>

742-0048 (CR2032)

742-0062 (BR2032)

742-0064 (BR2330)

RAYOVAC

<http://www.rayovacindustrial.com/Technical-OEM/SDS.aspx>

742-0080 (BR2032)