

# GS1 bar codes, UNSPC codes, GPC codes and CN codes

Aidan Turnbull, Director, BOMcheck

# GS1 bar codes are not used by suppliers in B2B supply chains. B2B supply chains use part numbers

- GS1 bar codes are used to identify packaged consumer goods so that high-street retailers can scan the goods at the checkout till to identify the price and to manage stock levels
  - The bar code relates to the packaged goods – it does not relate to individual articles inside the packaging
- A GS1 bar code is only able to identify the article in the limited case where the consumer product which is being supplied is itself an article and the bar code is printed on the product instead of on the packaging.
  - For example, a bar code which is printed onto a rubber duck does identify an article because in this case the rubber duck itself is an article.
- Suppliers in B2B supply chains do not use GS1 bar codes when they supply their components and assemblies.
  - Suppliers in B2B supply chains use part numbers. Business customers specify the supplier part numbers on their purchase orders, or they specify their customer part numbers on the purchase order which the supplier fulfils with the supplier part numbers

GTIN 5000394017825 is a pack of 12 Duracell AA batteries (part number MN1500 and battery type LR6)



EAN Code

barcode

Product description

5000394017825



Duracell Plus Power Alkaline Battery MN 1500 Mignon  
»Electronics



GTIN 5000394017641 is a pack of 4 Duracell AA batteries (part number MN1500 and battery type LR6)



EAN Code

5000394017641

barcode



Product description

Duracell Plus Power Mignon AA LR6 Batteries  
»Computer Accessories

Suppliers use part numbers to identify objects and part names/types to describe objects

- The bar code is not printed on the battery!
- Supplier part number and battery type are printed on the battery






# B2B suppliers do not use UNSPSC, GPC or CN codes


Even for consumer products, many OEMS do not use UNSPSC, GPC or CN codes. For example, the article information sheet published by Duracell for their alkaline batteries provides extensive information about the battery types but does not include a UNSPSC, GPC or CN code <https://www.batteriesplus.com/image/sds-Duracell-Alkaline>

Article Information Sheet (AIS) Formerly known as MSDS/PSDS document for Shippers	
This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and others users requesting a GHS-compliant SDS. Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article. Branded consumer batteries are defined as electro-technical devices. The design, safety, manufacture, and qualification of branded consumer batteries follow ANSI and IEC battery standards. This document is based on principles set forth in the following hazard communication approaches: ANSI Z-400.1, GHS, JAMP AIS, and IEC 62474.	
<b>1. Document Information</b>	
Document Name	Duracell Alkaline Batteries (Major and Specialty Cells)
Document ID	AIS-ALK
Issue Date	1-May-15
Preparer	Product Safety & Regulatory
Last Revision	7/22/2016
Information Contact	<a href="mailto:moquet.l@duracell.com">moquet.l@duracell.com</a>
<b>2. Company Information</b>	
Name & Address	Duracell US Operations, Inc., 14 Research Drive, Bethel, CT USA 06801
Telephone	(203) 796- 4430
Website	<a href="http://www.duracell.com">www.duracell.com</a>
Consumer Relations	North America: 1-800-551-2355 (9:00 AM - 5:00 PM EST)
<b>3. Article Information</b>	
Description	Duracell branded consumer alkaline battery
Product Category	Electro-technical device
Use	Portable power source for electronic devices
Global sub-brands (Retail)	Coppertop, Plus, Quantum, Simply, Turbo, Ultra, Basic, TurboMax
Global sub-brands (B2B)	Procell, Industrial, OEM/OEA
Major Cells - Sizes/Part Numbers	(AA) MN/MX 1500; (AAA) MN/MX 2400; (AAAA) MN/MX 2500; ( C ) MN/MX 1400; (D) MN/MX 1300; (9V) MN/MX1604
Specialty Cells - Sizes/Part Numbers	MN11, MN21, MN27, MN175, PX76 (LR44), PX28, PX625, (LR09), LR43, LR54, N, J, 4.5V, 625A
Lanterns - Part Numbers	MN903, MN908, MN915, MN918; MN1203
Principles of Operation	A battery powers a device by converting stored chemical energy into electrical energy.
Representative Product Images	
<b>4. Article Construction</b>	
Applicable Battery Industry Standards	ANSI C18.1M Part 1, ANSI C18.1M Part 2, ANSI C18.4, IEC 60086-1, IEC 60086-2, IEC 60086-5
Electro-technical System	Alkaline Manganese Dioxide
Electrode - Negative	Zinc (CAS # 7440-66-6); 10-25%
Electrode - Positive	Manganese Dioxide (CAS # 1313-13-9); 35-40%
Electrolyte	Alkali Metal Hydroxide (aqueous potassium hydroxide - CAS # 1310-58-3); 5-10%
Materials of Construction - Can	Nickel Plated Steel
Declarable Substances (IEC 62474 Criteria 1)	None
Mercury Free Battery (ANSI C18.4M <Sppm)	Yes
Small Cell or Battery (ANSI C18.1M Part 2; IEC 60086-5)	Sizes: AAA and Specialty Cells fit inside a specially designed test cylinder 2.25 inches (57.1mm) long by 1.25 inches (31.70 mm) wide.


Article Information Sheet (AIS) Formerly known as MSDS/PSDS document for Shippers	
<b>5. Health &amp; Safety</b>	
Ingestion/Small Parts Warning	<b>Required for Small Cell or Battery (Sizes: AAA and Specialty Cells):</b> Keep away from children. If swallowed, consult a physician immediately.
Normal Conditions of Use	Exposure to contents inside the sealed battery will not occur unless the battery leaks, is exposed to high temperatures, or is mechanically abused.
Note to Physician	A damaged battery will release concentrated and caustic potassium hydroxide.
First Aid - If swallowed	Do not induce vomiting. Seek medical attention immediately. <b>USA CALLS ONLY - CALL 24-HOUR NATIONAL BATTERY INGESTION HOTLINE: (202) 625-3333 - COLLECT.</b>
First Aid - Eye Contact	Flush with water for at least 15 minutes. Seek medical care if irritation persists.
First Aid - Skin Contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical care if irritation persists.
First Aid - Inhalation	Remove to fresh air.
Battery Safety Standards & Testing	Duracell batteries meet the requirements of ANSI C18. 1M Part 2 and IEC 60086-5. These standards specify tests and requirements for alkaline batteries to ensure safe operation under normal use and reasonably foreseeable misuse. The test regimes assess three conditions of safety. These are: <b>1-Intended use simulation:</b> Partial use, vibration, thermal shock, and mechanical shock <b>2-Reasonably foreseeable misuse:</b> Incorrect installation, external short-circuit, free fall (user-drop), over-discharge, and crush <b>3-Design consideration:</b> Thermal abuse, mold stress
Precautionary Statements	<b>CAUTION:</b> Batteries may explode or leak, and cause burn injury, if recharged, disposed of in fire, mixed with a different battery type, inserted backwards or disassembled. Replace all used batteries at the same time. Do not carry batteries loose in your pocket or purse. Do not remove the battery label. Keep small batteries (i.e., AAA) away from children. If swallowed, consult a physician at once.
<b>6. Fire Hazard &amp; Firefighting</b>	
Fire Hazard	Batteries may rupture or leak if involved in a fire.
Extinguishing Media	Use any extinguishing media appropriate for the surrounding area.
Fires Involving Large Quantities of Batteries	Large quantities of batteries involved in a fire will rupture and release caustic potassium hydroxide. Firefighters should wear self-contained breathing apparatus and protective clothing.
<b>7. Handling &amp; Storage</b>	
Handling Precautions	Avoid mechanical and electrical abuse. Do not short circuit or install incorrectly. Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions.
Storage Precautions	Store batteries in a dry place at normal room temperature. Refrigeration does not make them last longer.
Spills of Large Quantities of Loose Batteries (unpackaged)	Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.
<b>8. Disposal Considerations (GHS Section 13)</b>	
Collection & Proper Disposal	Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to short-circuit. Do not incinerate. In countries, such as Canada and the EU, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.

# Suppliers use part numbers to identify objects and part names to describe objects




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## Safety Capacitor, 0.047 $\mu$ F, Y2, MKP3366 Y2 Series, 300 V, PP (Polypropylene) - BFC233660473








Image is for illustrative purposes only. Please refer to product description.




Manufacturer:	VISHAY
Manufacturer Part No:	BFC233660473
Order Code:	CA07157
Product Range 	MKP3366 Y2 Series
Also Known As:	222233660473
Technical Datasheet:	 <a href="#">BFC233660473 Datasheet</a>
Catalogue page:	 <a href="#">CPCC/3252</a>

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### Product Information

<input type="checkbox"/> Capacitance:	47000pF	<input type="checkbox"/> dv/dt Rating:	-
<input type="checkbox"/> Suppression Class:	Y2	<input type="checkbox"/> Capacitor Case Style:	-
<input type="checkbox"/> Product Range:	MKP3366 Y2 Series	<input type="checkbox"/> Capacitor Terminals:	Radial Leaded
<input type="checkbox"/> Voltage Rating X:	-	<input type="checkbox"/> Operating Temperature Min:	-55°C
<input type="checkbox"/> Voltage Rating Y:	300V	<input type="checkbox"/> Operating Temperature Max:	105°C
<input type="checkbox"/> Capacitor Dielectric Type:	PP (Polypropylene)	<input type="checkbox"/> Automotive Qualification:	-

### Technical Docs

 [Technical Data Sheet EN](#)

# Suppliers use part numbers to identify objects and part names to describe objects



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## Product Overview

Digi-Key Part Number	1471-1289-ND
Quantity Available	47 Can ship immediately
Manufacturer	<a href="#">MikroElektronika</a>
Manufacturer Part Number	MIKROE-766
Description	BOARD DEVELOPMENT READY PIC
Manufacturer Standard Lead Time	4 Weeks
Detailed Description	PIC18F45K22 Ready™ for PIC PIC® MCU 8-Bit PIC Embedded Evaluation Board

## Price & Procurement

Quantity

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Price Break	Unit Price	Extended Price
1	22.40000	£22.40

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## Documents & Media

Datasheets	<a href="#">Ready for PIC Manual</a>
Design Resources	<a href="#">Development Tool Selector</a>


## Product Attributes

Select All ☐

Categories	<a href="#">Development Boards, Kits, Programmers</a>	<input type="radio"/>
	<a href="#">Evaluation Boards - Embedded - MCU, DSP</a>	<input checked="" type="radio"/>
Manufacturer	MikroElektronika	<input type="checkbox"/>



# Suppliers use part numbers to identify objects and part names to describe objects




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See datasheet for actual packaging/pinout drawings

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# Suppliers use part numbers to identify objects and part names to describe objects




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Brand **United Automation**

Mfr. Part No. **PR3-E-18KW**

RoHS status: **Compliant**

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**£285.27**

ECHA should enable OEMs to use the supplier part names to describe the supplier article part numbers in the database

- Requiring industry to collect information on object-based category descriptions in their supply chains would be a considerable additional burden.
  - Costs to industry would be excessive compared to the questionable benefits to consumers and the waste industry to have access to object-based category descriptions in the database
- Enabling OEMs to use the supplier part names to describe the supplier article part numbers in the ECHA database would enable consumers to make practical use of the Article 33 submissions in the ECHA database to understand which articles in the complex object contain REACH Candidate List substances
  - Linking the “safe use information” to the supplier part name for the article in the ECHA database would help consumers and waste recyclers to understand what actions they should take to avoid exposure to REACH Candidate List substances