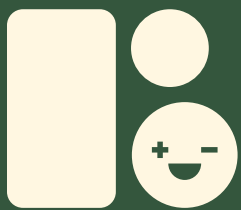
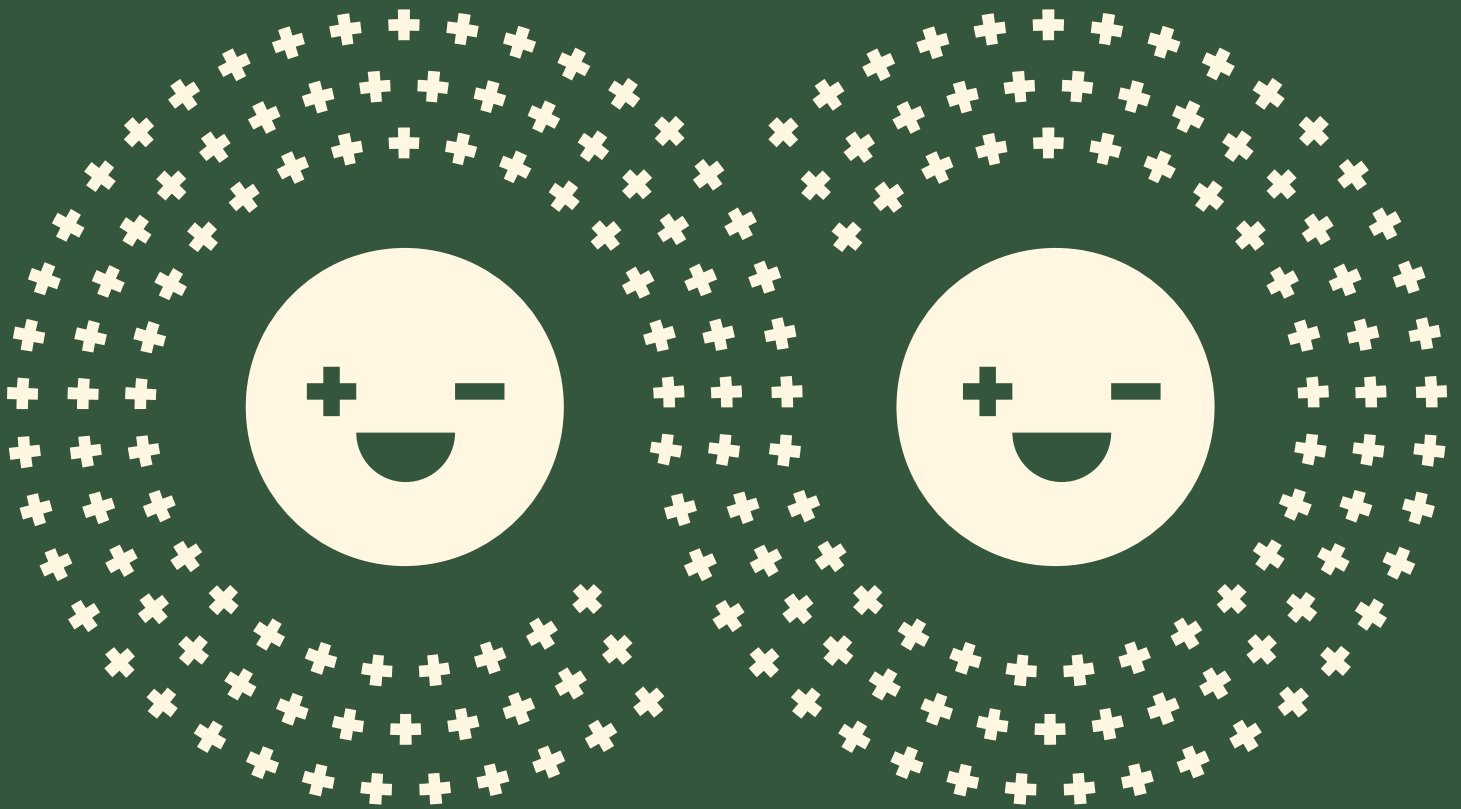


BETTER BATTERY CO.
BARRIE, ONTARIO
CANADA

VERSION 1.2

SDS



Better
Battery
Co. TM/INC

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01—

Identification

Product name:	Alkaline Battery
Free Sizes:	All sizes
Emergency hotline:	800-526-4727 / +1-314-985-1511 (24 HOUR)
Edition date:	05/20/2020
Canada:	+1-800-268-9017

02—

Hazard Identification

Better Battery Co. would like to inform our customers that these batteries are exempt articles and as such are not subject to the 29 CFR 1910.1200 OSHA requirements, Canadian WHMIS requirements, nor GHS requirements.

Emergency Overview:

OSHA Hazards	N/A
Target Organs	N/A
GHS Classification	N/A
GHS Label Elements, including precautionary Statement	N/A
Pictogram	N/A
Signal words	N/A
Hazard statements	N/A
Precautionary statements	N/A

03—

Ecological Information

Discharged batteries should be recycled wherever possible first, if not possible then disposed of through waste disposal services or legitimate collection outlets. Battery collection must follow Federal, State, Provincial or local regulations

Warning: Partially discharged batteries can overheat and cause fires in the presence of other combustible materials.



04—

Disposal Considerations

Consumers should always comply with Federal, State, Provincial or local regulations. All Better Battery Co. batteries have been tested per Federal hazardous waste testing requirements (TCLP). The TCLP tests show Better Battery Co. alkaline batteries are not hazardous waste.

05—

Composition/Information on Ingredients

COMPONENT	CONCENTRATION	FORMULA	CAS NO.
Positive Electrode			
Manganese Dioxide	20 – 45	MnO ₂	1313-13-9
Graphite	1.0 – 4.5	C	7782-42-5
Negative Electrode			
Zinc	10 – 20	Zn	7440-66-6
Electrolyte			
Potassium Hydroxide	3 – 10	KOH	1310-58-3
Water	1 – 15	H ₂ O	-----

06—

Handling and Storage

Store the batteries, on their own, in a dry place. **DO NOT** store unpackaged cells together with other combustible materials, it could result in cell shorting and heat build-up. Do not recharge. Do not puncture or abuse the battery casing.

STORAGE TEMP. RANGE: +10°C (50°F) ~ + 25°C (77°F)

OPERATING TEMP. RANGE: -20°C (-4°F) ~ + 55°C (131°F)



07—

Exposure Control/Personal Protection

RESPIRATORY PROTECTION (SPECIFY TYPE): _____ N/A
 VENTILATION: _____ N/A
 Local Exhaust: _____ N/A
 Mechanical (General): _____ N/A
 Special: _____ N/A
 Other: _____ N/A
 PROTECTIVE GLOVES: _____ N/A
 EYE PROTECTION: _____ N/A
 OTHER PROTECTIVE CLOTHING: _____ N/A

08—

First Aid

THRESHOLD LIMIT VALUE (TLV) AND SOURCE: _____ N/A
 EFFECTS OF OVEREXPOSURE: _____ None in normal use
 EMERGENCY FIRST AID PROCEDURES:

SKIN AND EYES:

Never pick up a shorting battery as it may cause a burn. Seek immediate medical attention when eyes may have been exposed to battery contents from a ruptured battery. Wash skin with soap and water.

SWALLOWING:

If accidental battery ingestion occurs or is suspected; seek immediate medical assistance.

Call the **NATIONAL BATTERY INGESTION HOTLINE** any time at **800-498-8666**.

For more information, please visit: <http://www.nema.org/Policy/Environmental-Stewardship/Documents/batteryingest.pdf>

Canada call **800-268-9017** or your local Hospital Emergency Department



09—

Firefighting Measures

FLASH POINT:	_____	N/A
LOWER (LEL):	_____	N/A
UPPER (UEL):	_____	N/A
EXTINGUISHING MEDIA:	— Water, foam, or dry powder as appropriate	
AUTO-IGNITION:	_____	N/A
FLAMMABLE LIMITS IN AIR (%):	_____	N/A

SPECIAL FIRE FIGHTING PROCEDURES:

To avoid inhalation of hazardous decomposition products (as per Section 2); as with any fire, wear self-contained breathing apparatus.

SPECIAL FIRE OR EXPLOSION HAZARDS:

Do not recharge. There is a risk of release of flammable or corrosive materials, as with any battery, should rupture occur after exposure to excessive heat.

10—

Accidental Release Measures

TO CONTAIN AND CLEAN UP LEAKS OR SPILLS:

In the event of a battery rupture, ensure to prevent skin contact and to collect all released material in a plastic lined metal container.

REPORTING PROCEDURE:

All spills must be reported in accordance with Federal, State and Local reporting requirements.



11—**Physical and Chemical Properties**

Boiling Point @ 760 mm Hg (°C):	N/A	Percent Volatile by Volume (%):	N/A
Vapor Pressure (mm Hg @ 25°C):	N/A	Evaporation Rate (Butyl Acetate = 1):	N/A
Vapor Density (Air = 1):	N/A	Physical State:	N/A
Density (grams/cc):	N/A	Solubility in Water (% by Weight):	N/A
pH:	N/A	Appearance and Odor:	N/A

12—**Stability and Reactivity**

STABLE OR UNSTABLE:	_____	Stable
INCOMPATIBILITY (MATERIALS TO AVOID):	_____	N/A
HAZARDOUS DECOMPOSITION PRODUCTS:	_____	N/A
DECOMPOSITION TEMPERATURE (0°F):	_____	N/A
HAZARDOUS POLYMERIZATION:	_____	Will Not Occur
CONDITIONS TO AVOID:	_____ Avoid electrical shorting, puncturing or deforming	



13— Toxicological Information

COMPONENT	CONCENTRATION	FORMULA	CAS NO.
Positive Electrode			
Manganese Dioxide	20 – 45	MnO ₂	1313-13-9
Graphite	1.0 – 4.5	C	7782-42-5
Negative Electrode			
Zinc	10 – 20	Zn	7440-66-6
Electrolyte			
Potassium Hydroxide	3 – 10	KOH	1310-58-3
Water	1 – 15	H ₂ O	-----

14— Transportation Information

TRANSPORTATION/SHIPPING: Alkaline batteries are considered dry cell batteries and are deemed non- dangerous goods for transportation. It is essential that batteries are packed in a way to prevent short circuits or generation of a dangerous quantity of heat.

USDOT:
See Special
Provision 130.

IMO/Ocean:
Not Listed.

TRANSPORT CANADA:
TGD Regulations.

ICAO/IATA:
See Special Provision A123. This special provision also states to put the words “not restricted” and “special provision A123” on the air waybill when an air waybill is issued.



15—

Regulatory Information

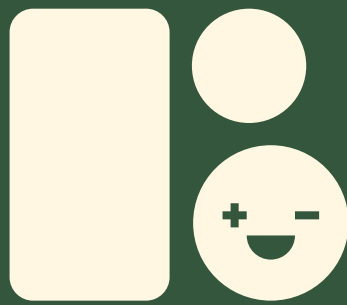
As these products are article(s) that do not release a covered toxic chemical under the normal conditions of storage, use and handling, notification is not required.

16—

Other Information

The information and recommendations as above are made in good faith and are believed to be accurate at the date of preparation. Better Battery Co. does not make any warranty, expressed nor implied.





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