



Ascent Battery Supply, LLC
1325 Walnut Ridge Drive
Hartland, Wisconsin 53029

Safety Data Sheet (SDS)

Alkaline Batteries

The information and recommendations below are believed to be accurate at the date of document preparation. Ascent Battery Supply makes no warranty or merchantability or any other warranty, express or implied, with respect to this information and assumes no liability resulting from its use. This SDS provides guidelines for safe use and handling of product. It does not, and cannot, advise all possible situations. All specific uses of this product must be evaluated by the end user to determine if additional safety precautions should be taken.

SECTION 1 - IDENTIFICATION

Product Name	Alkaline Batteries – Mercury Free	Emergency Number	CHEMTREC 1-800-424-9300
Common Name(s)	Alkaline	Overseas Emergency Number	CHEMTREC +1 703-741-5970
Synonyms	Primary Battery		
DOT Description	Dry Battery		
Chemical Name	Manganese Dioxide		
Distributed By	Ascent Battery Supply, LLC 1325 Walnut Ridge Drive Hartland, Wisconsin 53029		
Address			

SECTION 2 – HAZARD(S)

Unusual Fire and Explosion Hazards Cells may rupture when exposed to excessive heat. This could result in the release of flammable or corrosive materials.

SECTION 3 – COMPOSITION

Chemical Name	CAS No.	Percentage %
Manganese Dioxide	1313-13-9	32-40
Stainless Steel	7439-89-6	19-23
Zinc	7440-66-6	10-25
Potassium Hydroxide	1310-58-3	5-10
Graphite	7782-42-5	1-5
Barium Sulfate	7727-43-7	<5
Water, Paper, Plastic, other inert	N/A	balance

SECTION 4 – FIRST AID MEASURES

For Manganese Dioxide Chemicals:

Inhalation Get fresh air. If symptoms persist seek medical attention

Eyes and Skin **Skin:** Flush with copious quantities of flowing lukewarm water for a minimum of 15 minutes; wash with soap and water
Eyes: Flush with copious quantities of flowing lukewarm water for a minimum of 15 minutes; get immediate medical attention.

Ingestion Ingestion of battery chemicals can be harmful. Call The National Battery Ingestion Hotline (202-625-3333) 24 hours a day, for procedures treating ingestion of chemicals. Do not induce vomiting.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguisher Media Use water, foam or dry powder

Special Fire Fighting Procedures Wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

In case of accidental rupture or release: prevent skin and eye contact and collect all released material in a plastic lined metal container. See also: sections 4, 5, and 8.

SECTION 7 – HANDLING AND STORAGE

1. Store in a dry place.
2. Do not store unpacked cells together: to avoid cells shorting to one another.
3. If packing materials are not available, please masking tape on the (+) and (-) ends of the cells.

SECTION 8 – EXPOSURE/PERSONAL PROTECTION

Respiratory Protection	None required under normal handling conditions
Gloves	Wear gloves if cell is ruptured, corroded, or leaking materials
Safety Glasses	Always wear safety glasses with working with battery cells

SECTION 9 – PHYSICAL/CHEMICAL PROPERTIES

Boiling Point	N/A	Melting Point	N/A
Vapor Pressure	N/A	Vapor Density	N/A
Specific Gravity	N/A	Evaporation Rate	N/A
Solubility in Water	N/A	Appearance and Odor	Geometric, solid object

SECTION 10 – STABILITY & REACTIVITY

Reactivity in Water	N/A	Auto-Ignition Temperature	N/A
Flash Point	N/A	Flammable Limits in Air, by vol.	N/A
Percent Volatile By Volume	N/A		
Stable	Avoid electrically shorting the cell		
Incompatibility (materials to avoid)	N/A		

SECTION 11 – TOXICOLOGICAL INFORMATION

Threshold Limit Value	N/A
Signs and Symptoms of Exposure	None. (In fire or rupture situations, refer to sections 4, 5, & 8.)
Medical Conditions Generally Caused by Exposure	Chemicals may cause burns to skin, eyes, gastrointestinal tract and mucous membranes.
Routes of Entry	Skin, Eyes, Ingestion (swallowing)

SECTION 12 – ECOLOGICAL INFORMATION

Hazardous Decomposition Products	N/A
Hazardous Polymerization	Will not occur

Under normal use these batteries do not release internal ingredients into the environment. Damaged or abused batteries may release small amounts of zinc, manganese, and potassium hydroxide. Do not carelessly discard, as small amounts of zinc may be released into storm or surface water. Do not discard batteries into a fire. Dispose of properly or recycle.

SECTION 13 - DISPOSAL

1. Alkaline (Manganese Dioxide) batteries have no hazardous waste characteristics and can be landfilled.

SECTION 14 – TRANSPORT

Alkaline Batteries are considered dry-cell batteries and are not considered 'hazardous' or 'dangerous' goods for transportation. These batteries must be packed in a way to prevent short circuits or generation of a dangerous quantity of heat.

SECTION 15 – REGULATORY INFORMATION

IATA Not considered to be 'dangerous goods'.
DOT Not considered to be a 'hazardous material'.

SECTION 16 - OTHER

Document Control No:	SDS20001 – Ascent SDS for Alkaline Batteries	Revision:	3	Effective Date:	10-05-2016
-----------------------------	--	------------------	---	------------------------	------------