



Ascent Battery Supply, LLC  
925 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

<b>Product Name</b>	Alkaline Batteries – Mercury Free	<b>Emergency Number</b>	INFOTRAC (800) 535-5053
<b>Common Name(s)</b>	Alkaline	<b>Overseas Emergency Number</b>	INFOTRAC (352) 323-3500 (Collect)
<b>Synonyms</b>	Primary Battery		
<b>DOT Description</b>	Dry Battery		
<b>Chemical Name</b>	Manganese Dioxide		
<b>Distributed By</b>	Ascent Battery Supply, LLC 925 Walnut Ridge Drive Hartland, Wisconsin 53029		
<b>Address</b>			

### 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:**

<b>Inhalation</b>	Get fresh air. If symptoms persist seek medical attention
<b>Eyes and Skin</b>	<b>Skin:</b> Flush with copious quantities of flowing lukewarm water for a minimum of 15 minutes; wash with soap and water <b>Eyes:</b> Flush with copious quantities of flowing lukewarm water for a minimum of 15 minutes; get immediate medical attention.
<b>Ingestion</b>	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

<b>Extinguisher Media</b>	Use water, foam or dry powder
<b>Special Fire Fighting Procedures</b>	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

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

## SECTION 9 – PHYSICAL/CHEMICAL PROPERTIES

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

## SECTION 10 – STABILITY & REACTIVITY

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

## SECTION 11 – TOXICOLOGICAL INFORMATION

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

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Hazardous Decomposition Products</b>	N/A
<b>Hazardous Polymerization</b>	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

<b>IATA</b>	Not considered to be 'dangerous goods'.
<b>DOT</b>	Not considered to be a 'hazardous material'.

## SECTION 16 - OTHER

<b>Document Control No:</b>	SDS20001 – Ascent SDS for Alkaline Batteries	<b>Revision:</b>	1	<b>Effective Date:</b>	07/02/13
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