



<b>Ingestion</b>	Do not induce vomiting. Ingestion of battery chemicals can be harmful. Seek medical attention immediately. Call The National Battery Ingestion Hotline (202-625-3333) 24 hours a day, for procedures treating ingestion of chemicals.
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## SECTION 5 – FIRE-FIGHTING MEASURES

**Flash Point** – N/A

**Auto Ingestion** – No Data Available

**Extinguisher Media** - Use CO<sub>2</sub>, foam or dry chemical extinguishers. Sand may also be used.

**Special Fire-Fighting Procedures** - Use positive pressure, self-contained breathing apparatus.

## 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. Leaking batteries should be handled with gloves. Wear protective clothing. Use a self-contained breathing apparatus if in the presence of chemical vapor. See also: sections 4, 5, and 8.

## SECTION 7 – HANDLING AND STORAGE

**Handling** – Do not disassemble. Do not short circuit. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.

**Storage** - Store batteries under roof in an ambient temperature between -20°C(-4°F) and 35°C(95°F), dry, well-ventilated areas separated from incompatible materials and from activities that may create flames, spark or heat. Do not store unpacked cells together: avoid cells shorting to one another – especially in a charged state. Do not mix new and used batteries. Keep away from metallic objects that could bridge the terminals on a battery and create a dangerous short-circuit.

**Charging** – Do not attempt to recharge a primary battery.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation Requirements** – Not necessary under normal conditions.

**Respiratory Protection (NIOSH/MSHA approved)** - None required under normal handling conditions.

**Eye Protection** – Always wear safety glasses while working with battery cells.

**Skin Protection** – Not necessary under normal conditions. Wear gloves if cell is ruptured, corroded, or leaking materials.

## SECTION 9 – PHYSICAL/CHEMICAL PROPERTIES

<b>Boiling Point</b>	NA	<b>Melting Point</b>	NA
<b>Vapor Pressure</b>	NA	<b>Vapor Density</b>	NA
<b>Specific Gravity (H<sub>2</sub>O=1)</b>	NA	<b>Solubility in Water</b>	NA
<b>Evaporation Rate</b>	NA	<b>pH</b>	NA

<b>Reactivity in Water</b>	Do not put into water	<b>Auto-Ignition Temperature</b>	NA
<b>Lower Explosive Limit (LEL)</b>	NA	<b>Upper Explosive Limit (UEL)</b>	NA
<b>Odor Threshold</b>	NA	<b>Viscosity (poise @ 25° C)</b>	NA
<b>Partition Coefficient</b>	NA	<b>Decomposition Temperature</b>	NA
<b>Flash Point</b>	NA		
<b>Appearance and Odor</b>	Geometric, solid object, odorless.		

## SECTION 10 – STABILITY & REACTIVITY

**Stability** - Avoid electrically shorting the cell. Under normal conditions this product is stable and will not decompose.

**Incompatibility (materials to avoid)** – NA

## SECTION 11 – TOXICOLOGICAL INFORMATION

**ROUTES AND METHODS OF ENTRY** - Skin, Eyes, Ingestion (swallowing).

**SIGNS AND SYMPTOMS OF OVEREXPOSURE** – None. (In fire or rupture, refer to sections 4, 5, and 8).

**MEDICAL CONDITIONS GENERALLY CAUSED BY EXPOSURE** - Chemicals may cause burns to skin, eyes, gastrointestinal tract and mucous membranes. Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs.

## SECTION 12 – ECOLOGICAL INFORMATION

**Hazardous Decomposition Products** – NA

**Hazardous Polymerization** - Under normal use these batteries do not release internal ingredients into the environment. Damaged or abused batteries may release small amounts of zinc and manganese. 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

**Waste Disposal Method** - Dispose of properly or recycle in accordance with all Federal, State and local laws and regulations.

## SECTION 14 – TRANSPORT

These batteries must be packaged in a way that prevents the dangerous evolution of heat and protects the terminals from short circuit. When properly packaged and labeled, these dry batteries are not subject to dangerous goods regulation for the purpose of transportation and fall under special provision of the agencies listed in Section 15.

## SECTION 15 – REGULATORY INFORMATION

**IATA/ICAO:** See Special Provision A123. Put the words “not restricted” and “special provision A123” on the air waybill when issued. Not considered to be ‘dangerous goods’ when packaged properly.

**DOT:** See Special Provision 130

**IMDG/Ocean:** Not listed

**SARA 313:** Notification is not required.

## SECTION 16 – OTHER INFORMATION

None.

<b>Document Control No:</b>	SDS20003 – Ascent SDS for Zinc Chloride (Heavy Duty) Batteries	<b>Revision:</b>	4	<b>Effective Date:</b>	10/4/18
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