

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

# SAFETY DATA SHEET (SDS)

# ZINC CHLORIDE (HEAVY DUTY) 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	Zinc Chloride Battery			
Common Name(s)	Heavy Duty			
Synonyms	Zn Chloride Battery			
DOT Description	Dry Battery			
Chemical Name	Zinc Chloride Primary Battery			
Distributed By	Ascent Battery Supply, LLC			
Address	1325 Walnut Ridge Drive, Hartland, WI 53029			
Emergency number	CHEMTREC 1-800-424-9300			
International Emergency Number	CHEMTREC +1 703-741-5970 (Collect)			

### SECTION 2 - HAZARD(S)

GHS Classification: NA	
Signal Word: NA	
Hazard Classification: NA	

These batteries are exempt items, not subject to OSHA or GHS requirements.

Battery cells may rupture when exposed to excessive heat, which may result in the release of corrosive materials.

# **SECTION 3 - COMPOSITION**

Chemical Name	CAS No.	Percentage %
Manganese Dioxide	1313-13-9	28 – 38
Zinc	7440-66-6	16-23
Acetylene Black	1333-86-4	0 - 5
Ammonium Chloride	12125-02-9	0-3
Zinc Chloride	7646-85-7	6 – 9

### SECTION 4 – FIRST AID MEASURES

Eyes Contact	If exposed to internal battery content, flush with copious quantities of flowing lukewarm water for a minimum of 15 minutes; get immediate medical attention.
Skin Contact	If exposed to internal battery content, flush with copious quantities of flowing lukewarm water for a minimum of 15 minutes; wash with soap and water.

Ingestion	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, wellventilated 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**

Boiling Point	NA	Melting Point	NA
Vapor Pressure	NA	Vapor Density	NA
Specific Gravity (H2O=1)	NA	Solubility in Water	NA
Evaporation Rate	NA	рН	NA

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

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