

Powerhouse Two, Inc.

Safety Data Sheets for Power XP Alkaline Batteries

Ref.No.:PHT2014112501

Section 1, Identification

Manufacturer's Name: Powerhouse Two, Inc.

Address: 120 W. Crown Point Rd. #112 Winter Garden, Fl. 34787,USA

TEL: 407-654-5451 FAX: 407-654-2795 ZIP/Post Code:34787

Website: www.powerhb.com

Email: nick.wirbel@powerhb.com

Battery type: Power XP Alkaline Battery(AA/LR6, AAA/LR03, C/LR14, D/LR20, N/LR1, 9V/6LR61)

Chemical system : Zn-MnO₂(alkaline) Emergency phone number: 407-654-5451

SDS Creation Date: Nov 25th 2014

Section 2, Hazard(s) identification

Under normal conditions of use, the battery is hermetically sealed.

Ingestion: Swallowing a battery can be harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

Inhalation: Contents of an open battery can cause respiratory irritation.

Skin Contact: Contents of an open battery can cause skin irritation and/or chemical burns.

Eye Contact: Contents of an open battery can cause severe irritation and chemical burns.

Section 3, Composition/information on ingredients

Description	CAS No.	% of Total Weight	
Manganese Dioxide	1313-13-9	40	Wt%
Zinc	7440-66-6	16	Wt%
Potassium hydroxide	1310-58-3	8	Wt%
Water	7732-18-5	10	Wt%
Iron	7439-89-6	17	Wt%
Paper	RR-01108-5	1	Wt%
Copper	7440-50-8	3	Wt%
Nylon	9008-75-7	2	Wt%
Graphite	7782-42-5	3	Wt%

Section 4, First-aid measures

Description of first aid measures

General information No special measures required.

After eye contact

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical

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attention if irritation persists.

After skin contact

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After inhalation

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After swallowing

Do not induce vomiting. Get medical attention.

Information for doctor:

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5, Fire-fighting measures

Flammability: Not available.

Extinguishing media

Suitable extinguishing agents

CO₂, dry chemical.

Special hazards arising from the substance or mixture

When exposed to fire or extreme heat, batteries may emit toxic fumes.

Advice for firefighters

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

Section 6, Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Environmental precautions

Do not allow material to be released to the environment without proper governmental permits.

Steps to be taken in case material is spilled or released

Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

Waste disposal method

All waste must refer to the United Nations, the national and local regulations for disposal.

Section 7, Handling and storage

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Handling

Precautions for safe handling

Consumption of food and beverage should be avoided in work areas.

Wash hands with soap and water before eating, drinking.

Ground containers when transferring liquid to prevent static accumulation and discharge.

Information about fire and explosion protection

Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles

Store in a cool, dry, well-ventilated place.

Information about storage in one common storage facility

Keep away from heat, avoiding the long time of sunlight.

Further information about storage conditions

Keep container tightly sealed.

Specific and use

No further relevant information available.

Section 8, Exposure controls/personal protection

Ventilation Requirements: Not necessary under normal conditions.

Respiratory Protection: Not necessary under normal conditions.

Eye Protection: Not necessary under normal conditions.

Gloves: Not necessary under normal conditions.

Section 9, Physical and chemical properties

Boiling Point @ 760 mm Hg (°C)	Not applicable for an Article
Vapor Pressure (mm Hg @ 25°C)	Not applicable for an Article
Vapor Density (Air = 1)	Not applicable for an Article
Density (g/cm ³)	2.0 – 3.0
Percent Volatile by Volume (%)	Not applicable for an Article
Evaporation Rate (Butyl Acetate = 1)	Not applicable for an Article
Physical State	Solid
Solubility in Water (% by weight)	Not applicable for an Article
pH	Not applicable for an Article
Appearance and Odor	Solid object / no odor

Section 10, Stability and reactivity

Reactivity: Data not available.

Chemical stability: Stable.

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Possibility of hazardous reactions: Data not available.

Conditions to Avoid

Heating, fire, mechanical abuse and electrical abuse.

Incompatibilities

Oxidizing agents, acid, base.

Hazardous Combustible Products

Carbon monoxide, carbon dioxide, other metallic oxide fumes.

Hazardous Polymerization

N/A.

Section 11, Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 Values relevant for classification:

Not available.

Primary irritant effect

No further relevant information available.

Sensitization:

No further relevant information available.

Additional toxicological information:

Toxicological, metabolism and distribution:

No further relevant information available.

Acute effects (acute toxicity, irritation and corrosivity):

No further relevant information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

No further relevant information available.

Section 12, Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behaviour in environmental systems

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecological effects

Additional ecological information

General notes:

Do not allow material to be released to the environment without proper governmental permits.

Other adverse effects: No further relevant information available.

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Section 13, Disposal considerations

Dispose of in accordance with all applicable federal, state and local regulations. Appropriate disposal technologies include incineration and land filling.

Section 14, Transport information

UN Number IATA, IMDG, Model Regulation	None
UN Proper shipping name IATA, IMDG, Model Regulation	None
Transport hazard class(es) IATA, IMDG, Model Regulation	None
Packing group IATA, IMDG, Model Regulation	None
Environmental hazards Marine pollutant:	No
Special precautions for user	Not applicable.

Power XP Alkaline batteries (sometimes referred to as "Dry cell" batteries) are not listed as dangerous goods under the IATA Dangerous Goods Regulations, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions. Special Provision A123 in the IATA Dangerous Goods Regulations and ICAO Technical Instructions and Special Provision 130 in 49 CFR 172.102 of the U.S. hazardous materials regulations require alkaline batteries are packed in such a way to prevent short circuits or generating a dangerous quantity of heat. In addition, the IATA Dangerous Goods Regulations and ICAO Technical Instructions require the words "not restricted" and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

Section 15, Regulatory information

This Safety Data Sheets (SDSs) complies with the requirements of OSHA's Hazard Communication Standard (HCS). Our alkaline batteries are not classified as dangerous goods by the US Department of Transportation or the major international regulatory bodies and are therefore not regulated.

Section 16, Other information

Abbreviations and acronyms

CLP:	EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.
CAS:	Chemical Abstracts Service (Division of the American Chemical Society).
ACGIH:	American Conference of Governmental Industrial Hygienists
TLV:	Threshold Limit Value

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IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods
LC50:	lethal concentration, 50 percent kill
LD50:	lethal dose, 50 percent kill
TWA:	Time Weighted Average
TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory
EINECS:	European Inventory of Existing Commercial Chemical Substances
OHSA:	Occupational Safety and Health Administration
HCS:	Hazard Communication Standard
GHS:	Globally Harmonized System
Model Regulation:	Recommendations on the Transport of Dangerous Goods Model Regulations