

# B001 Alkaline Battery Pack

PRODUCT NAME : Pulsarlube Alkaline Battery Pack	Type No.: B001	Volts : DC 4.5V
TRADE NAMES : Alkaline Battery Pack	Approximate Weight : 84.5g	
CHEMICAL SYSTEM : Alkaline-Manganese Dioxide	Designed for Recharge : <u>No</u>	

## 1. MANUFACTURER INFORMATION

Pulsarlube USA, Inc. 1480 Howard Street, Elk Grove Village, IL 60007, USA	Telephone Number for Information: Tel.: +1 (847) 593-5300 Fax : +1 (847) 593-5303
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Emergency telephone number +1 (847) 593-5300

## 2. HAZARDS IDENTIFICATION

**GHS classification:** N/A

**Signal Word:** N/A

**Hazard Classification:** N/A

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.

## 3. INGREDIENTS

**IMPORTANT NOTE :** The chemicals and metals in this product are contained in a sealed can & housing. Exposure to the contents will not occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused. Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

(Based on the battery)

MATERIAL OR INGREDIENT	PEL (OSHA)	TLV (ACGIH)
Graphite (CAS# 7782-42-5)	15 mg/m <sup>3</sup> TWA (total dust) 5 mg/m <sup>3</sup> TWA (respirable fraction)	2 mg/m <sup>3</sup> TWA (respirable fraction)
Manganese Dioxide (CAS# 1313-13-9)	5 mg/m <sup>3</sup> Ceiling (as Mn)	0.2 mg/m <sup>3</sup> TWA (as Mn)
Potassium Hydroxide (CAS# 1310-58-3)	None established	2mg/m <sup>3</sup> Ceiling
Zinc(CAS# 7440-66-6)	15 mg/m <sup>3</sup> TWA PNOR* (total dust) 5 mg/m <sup>3</sup> TWA PNOR* (respirable fraction)	10mg/m <sup>3</sup> TWA PNOC** (inhalable particulate) 3mg/m <sup>3</sup> TWA PNOC** (respirable particulate)

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Non-Hazardous Components		
Steel	None established	None established
(iron CAS# 65997-19-5 Water, Paper, Plastic and Other	None established	None established

#### 4. FIRST AID MEASURES

**Ingestion** : Do not induce vomiting. Seek medical attention immediately. CALL NATIONAL BATTERY INGESTION HOTLINE at (202)-625-3333 collect, day or night.

**Inhalation** : Move to fresh air. If irritation persists, seek medical attention.

**Skin Contact** : Remove contaminated clothing and wash skin with soap and water. If irritation persists, seek medical attention.

**Eye Contact** : Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

#### 5. FIRE FIGHTING MEASURES

**Hazardous Combustion Products** : Thermal degradation may produce hazardous fumes of zinc and manganese; hydrogen gas, caustic vapors of potassium hydroxide and other toxic by-products.

**Extinguishing Media** : Use any extinguishing media that is appropriate for the surrounding area.

**Protection of Firefighters** : Specific Hazards Arising from the Material : Batteries may burst and release hazardous decomposition products when exposed to a fire situation.

**Protective Equipment and Precautions for Firefighters** : Firefighters should wear positive pressure selfcontained breathing apparatus and full protective clothing.

#### 6. ACCIDENTAL RELEASE MEASURES

Notify safety personnel of large spills. Caustic potassium hydroxide may be released from leaking or ruptured batteries. Clean-up personnel should wear appropriate clothing to avoid eye and skin contact and inhalation of vapors and fumes. Ventilate area. Carefully collect batteries and place in an appropriate container for disposal.

#### 7. HANDLING AND STORAGE

**Precautions To Be Taken in Handling** : Avoid mechanical or electrical abuse. DO NOT short circuit or install incorrectly. Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions.

**Precautions To Be Taken in Storage** : Store batteries in a dry place at normal room temperature. Do not refrigerate – this will not make them last longer.

#### 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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

(Based on the battery)

Appearance (physical state, color, etc.):	Solid object
Upper Explosive Limits:	Not applicable for an Article
Lower Explosive Limits	Not applicable for an Article

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Odor	No odor
Vapor Pressure (mm Hg @ 25°C)	Not applicable for an Article
Odor Threshold	No odor
Vapor Density (Air = 1)	Not applicable for an Article
pH	Not applicable for an Article
Density (g/cm <sup>3</sup> )	2.0 – 3.0
Melting point/Freezing Point	Not applicable for an Article
Solubility in Water (% by weight)	Not applicable for an Article
Boiling Point @ 760 mm Hg (°C)	Not applicable for an Article
Flash Point	Not applicable for an Article
Evaporation Rate (Butyl Acetate = 1)	Not applicable for an Article
Flammability	Not applicable for an Article
Partition Coefficient	Not applicable for an Article
Auto-ignition Temperature	Not applicable for an Article
Decomposition Temperature	Not applicable for an Article
Viscosity	Not applicable for an Article

## 10. STABILITY AND REACTIVITY

Finished consumer product – stable under normal conditions of use. Contents are incompatible with strong oxidizing agents. Do not heat, crush, disassemble, short circuit or recharge.

## 11. TOXICOLOGICAL INFORMATION

This battery product is a finished consumer product. It is classified as an “article” and exempt under the federal OSHA Hazard Communication standard.

**Chronic Effects** : No chronic health effects reported.

**Target Organs** : No target organs reported.

**Carcinogenicity** : This finished consumer product is not carcinogenic.

## 12. ECOLOGICAL INFORMATION

No eco-toxicity data are available. This product is not expected to present an environmental hazard. alkaline battery packs do not contain any added mercury, cadmium or lead.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** : Dispose of in compliance with federal, state/provincial and local regulations.

Non-Household Setting (US Federal): Alkaline batteries covered by this PSDS, in their original form (finished consumer product), when disposed of as waste, are considered **non-hazardous** waste according to Federal RCRA regulation (40 CFR 261).

Non-Household Setting (California) : None

Household Use : Alkaline batteries can be safely disposed of with normal household. Do not accumulate large quantities used batteries for disposal as accumulation could cause batteries to short-circuit. Do not incinerate. In countries, such as Canada, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots, retailers. They should not dispose of them with household waste.

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## 14. TRANSPORT INFORMATION

**Alkaline batteries (sometimes referred to as “Dry cell” or “household” batteries) are not listed or regulated as dangerous goods under the IATA Dangerous Goods Regulations, ICAO Technical Instructions, IMDG Code, UN Model Regulations or U.S. hazardous regulations (49CFR).**

However, special regulatory provisions apply that require batteries to be packaged in a manner that prevents the generation of a dangerous quantity of heat and short circuits. Product shipped in its original unopened Pulsarlube packaging is compliant with the following packaging special provisions:

**Ground Transport (US DOT) :** 49 CFR172.102 Special Provision 130

**Air Transport (IATA)/ICAO :** Special Provision A123 (56<sup>th</sup> Edition – 2015)

The words ‘NOT RESTRICTED’ and the ‘Special Provision A123’ must be included on the description of the substance on the Air Waybill, when air waybill is issued.

**Sea -Marine/Water Transport (IMDG) :** NONE (Not Applicable - No Requirements)

Regulatory Body	Special Provisions
ADR	Not regulated
IMDG	Not regulated
UN	Not regulated
US DOT	49 CFR 172.102 Provision 130
IATA	A123
ICAO	Not regulated

## 15. REGULATORY INFORMATION

### United States :

**OSHA :** The finished alkaline battery product is considered an article and not covered by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

**CPSIA 2008 :** Alkaline batteries are exempt. See CPSC Exemption Letter posted on P&G web site.

**EPA Mercury Containing and Rechargeable Battery Management Act of 1996 :** Compliant

**EPA TSCA :** All intentionally-added components of this product are listed on the US TSCA Inventory.

**EPA SARA 313/302/304/311/312 chemicals :** Manganese compounds 35-40%; Zinc 10-25% California: This product has been evaluated and does not require warning labeling under California Proposition 65.

**State Right-to-Know and CERCLA :** The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

### Canada :

All ingredients are CEPA approved for import to Canada . This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

## 16. OTHER INFORMATION

1) Source of the data

(1) Battery manufacturer’s information : PSDS(PRODUCT SAFETY DATA SHEET) Data

2) The first creation date : 2015.01.07

3) The number of times, and the final revision date : Revision times 1  
The final revision date: 2018.10.26

*Pulsarlube has prepared copyrighted Product Safety Datasheets to provide information on the different Pulsarlube battery systems. As defined in OSHA Hazard Communication Standard, Section 1910.1200 (c), Pulsarlube Lithium battery Packs are manufactured articles, which do not result in exposure to a hazardous chemical under normal conditions of use. The information and recommendations set forth herein are made in good faith, for information only, and are believed to be accurate as of the date of preparation. However, Pulsarlube USA, Inc. MAKES NO*

**PSDS (Product Safety Data Sheet)**

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