

Initial Preparation Date: 8/17/01
Revision Date: 2/10/10
Effective Date: 10/31/12

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY: PEAK® BATTERY JUMP STARTER

1. CHEMICAL PRODUCT & COMPANY INFORMATION

OLD WORLD INDUSTRIES, LLC
4065 COMMERCIAL AVENUE
NORTHBROOK, ILLINOIS 60062
PHONE: 847-559-2000
EMERGENCY PHONE: 1-800-255-3924 (CHEMTEL)

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>MATERIAL</u>	<u>CAS #</u>	<u>% BY WT.</u>	<u>TLV (ACGIH)</u>	<u>PEL (OSHA)</u>
Lead	7439-92-1	43% - 70%	0.15 MG/M ³	50 UG/M ³
Lead Oxide	1317-36-8	20% - 25%	0.15 MG/M ³	50 UG/M ³
Lead Sulfate	7446-14-2	N/D	0.15 MG/M ³	50 MG/M ³
Sulfuric Acid	7664-93-9	20% - 44%	1 MG/M ³ *	1 MG/M ³ *

* STEL (ACGIH): 3 MG/M³
N/D = Not Determined

STEL (OSHA): N/A
N/A = Not Applicable

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

*Electrolyte is corrosive to skin, eyes and mucous membranes.
Chronic lead exposure can result in central nervous system and kidney damage.*

Lead Sulfate – LDLO: 2G/KG, dog, oral: **LDLO:** 30 G/KG, guinea pig, oral, positive in sister chromatid exchange assays in humans and animal cells. The lead and lead sulfate contained in this product pose a minimal hazard because they are enclosed. A lead hazard may result during recycling or if battery is discarded improperly.

Lead – TCLO: 10 UG/M³, human, inhalation: **TDLO:** 450 MG/KG human, oral, reported to cause chromosomal aberrations in humans and animal cells. Causes reproductive and developmental effects in experimental animals.

Carcinogeny:

NTP: No
IARC: Yes
OSHA: No

National Toxicology Program: Unknown

International Agency for Research on Cancer: According to the International Agency for Research on Cancer Monograph Supplement (1987), there is inadequate evidence for carcinogens of lead in humans. Lead and inorganic lead compounds are classified as group 2B carcinogens by IARC.

HAZARD RATING SYSTEM

HEALTH: 3 Corrosive **FLAMMABILITY:** 0 Non-flammable **REACTIVITY:** 1 Slightly reactive

KEY: 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

4. FIRST AID MEASURES

Ensure physician has access to this MSDS.

Routes of Entry: Skin, eye, inhalation

Signs and Symptoms of Exposure: The electrolyte is corrosive to skin, eyes and mucous membranes. Repeated or prolonged inhalation of mists can cause inflammation of the upper respiratory tract and chronic bronchitis. Pulmonary edema and death may occur from severe exposures.

Early symptoms of lead intoxication include a persistent metallic taste, anorexia, constipation and severe abdominal pain. Continued exposure may result in muscle weakness and fatigue, nervous system damage, tremors, pallor of face, anemia and kidney damage.

TREATMENT

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and seek medical attention immediately.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes and seek medical attention immediately. Wash clothing before reuse.

Inhalation: In inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.

Ingestion: If swallowed, do not induce vomiting. Give a glass of water and seek medical attention.

Notes to Physician: None

5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION HAZARD DATA

Flammable Properties

Flash Point: N/A

Autoignition Temperature: N/A

Flammability Limits - % of vapor concentration at which product can ignite in presence of spark.

LEL: N/A

UEL: N/A

Hazardous Combustion Products: Not known

Extinguishing Media: Carbon dioxide, dry chemical or foam

Fire Fighting Instructions: Cool battery exterior with water to prevent rupture.

Protective Equipment For Fire Fighters: Fire fighters should wear self-contained breathing apparatus and protective clothing to avoid corrosive and toxic mists, vapors and possibly lead fumes.

Unusual Fire and Explosion Hazards: Sulfuric acid, especially when diluted with water, can react with metals to produce flammable hydrogen gas.

6. ACCIDENTAL RELEASE MEASURES

Protect People: In case of large spill, remove to fresh air. Wash areas of contact with water.

Protect the Environment: Cover spill with clay absorbent. Neutralize with sodium bicarbonate (baking soda). Alternatively, sand, ashes or gravel can be used to cover spill and soda. Ash or lime can be used to neutralize.

Cleanup: N/A

7. HANDLING AND STORAGE

Keep upright and avoid excessive temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Respirators are not required under normal conditions of use. Use NIOSH approved respirator for acid mist if PEL or TLV is exceeded when handling electrolytes.

Skin Protection: Protective gloves are required when handling batteries or adding electrolyte. Neoprene, rubber or polyethylene type suggested. Rubber boots and rubber apron in accordance with potential for electrolyte exposure, long legged and long-sleeved clothing.

Eye Protection: Chemical splash goggles or full face shield is required when handling batteries or adding electrolyte.

Ventilation: General ventilation should be adequate under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

ELECTROLYTE

Boiling Point: >219°F
Volatility by Volume: N/A
Specific Gravity (Water =1): >1.1
Vapor Pressure (mm of Hg) at 77°F: <20
Vapor Density (Air=1): 3.4
Water Solubility: Soluble
Appearance: Clear
Odor: Strong acid odor
Melting Point: N/A
Evaporation Rate (BU-AC=1): <1
pH: <1

10. STABILITY & REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None

Incompatibility (Materials to Avoid): Strong alkaline materials, materials that react with a strong oxidizer

Hazardous Decomposition Products: Thermal decomposition will produce toxic sulfur oxides and lead fumes. Thermal decomposition of the battery casing material may produce nitrogen oxides and cyanides.

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Toxicity Study Information (for Environment & Safety Professionals): Only select registry of toxic effects of chemical substances (RTECS) data are presented here. Consult latest issue for more information.

Skin: N/A

Ingestion: N/A

Mutagenicity (The Effects On Genetic Material): Reported to cause chromosomal aberrations in humans and animal cells. Causes reproductive and developmental effects in experimental animals.

Significant Data With Possible Relevance To Humans: Not known

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

Movement & Partitioning: Not known

Degradation & Transformation: Not known

Ecotoxicology: Not known

13. DISPOSAL CONSIDERATIONS

Batteries and electrolyte must be disposed of in accordance with RCRA Regulations. Recycling lead contained in this product is suggested. Dispose of in accordance with local, state and federal rules and regulations.

14. TRANSPORT INFORMATION

U.S. Department of Transportation

Domestic Ground

Proper Shipping Name: Nonspillable battery

Hazard Class: Not regulated

I.D. #:

Labels Required:

Cons. Comm. ORM-D List Exemption: Exemption 173.159(d)

Outer Packaging: Nonspillable battery

Inner Packaging:

IATA (Air)

Proper Shipping Name: Nonspillable Battery

Exemption: A67 – Not regulated

Labels Required:

Hazard Class:

I.D. #:

Packing Instructions

Outer Packaging: Nonspillable Battery

Inner Packaging:

IMDG (Ocean)

Proper Shipping Name: Batteries, Wet, Non-Spillable

Exemption: IMDG Code Special Provision # 238

Labels Required: None

Hazard Class: N/A

I.D. #: N/A

Outer Packaging: "Non-Spillable Battery"

Inner Packaging: "Non-Spillable Battery"

If battery is an integrated part of equipment,

Proper Shipping Name: BATTERY-POWERED EQUIPMENT, UN 3171

Class: 9

15. REGULATORY INFORMATION

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SARA Title III:

* These chemicals are subject to Section 313 Title III SARA reporting requirements. The data presented refer primarily to the immediate hazard associated with this product.

United States TSCA

Inventory: All components appear on TSCA chemical substance inventory.

OSHA Regulated: Regulated (29CFR 1910.1025)

16. OTHER INFORMATION

Contact: Thomas Cholke

Phone: (847) 559-2225

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