

SAFETY DATA SHEET

1. Identification

Product identifier	Dry Battery (without electrolyte)
Other means of identification	
-	Lead Acid Battery (without electrolyte)
Recommended use	Electric storage battery.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Manufacturer/Supplier	East Penn Manufacturing Company, Inc.
Address	102 Deka Road, Lyon Station PA 19536
Telephone number	(610) 682-6361
Contact person	East Penn EHS Department
Emergency telephone number	USA/Canada: CHEMTREC (800) 424-9300, Outside USA 1 (703) 527-3887
E-mail	contactus@eastpenn-deka.com

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Reproductive toxicity	Category 1A
	Specific target organ toxicity, repeated exposure	Category 2 (Blood, Central nervous system, Kidney)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	
Label elements		



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Signal word	Danger
Hazard statement	Harmful if swallowed. Harmful if inhaled. May damage fertility or the unborn child. May cause damage to organs (Blood, Central nervous system, Kidney) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Collect spillage.
Storage	Not assigned.
Disposal	Refer to manufacturer/supplier for information on recovery/recycling. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Under normal conditions of processing and use, exposure to the chemical constituents in this product is unlikely. The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

3. Composition/information on ingredients

Chemical name		CAS number	%		
Lead and lead compounds (inorganic)		7439-92-1	90 - 94		
Lead monoxide		1317-36-8	> 0.1		
Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are percent by volume.				
4. First-aid measures					
Inhalation	Exposure to contents of an open or damaged battery: Move injured person into fresh air and kee person calm under observation. Get medical attention if any discomfort continues.				
Skin contact	Exposure to contents of an open or damaged battery: Remove contaminated clothing immediate and wash skin with soap and water. Get medical attention if irritation develops and persists.				
Eye contact	Exposure to contents of an open or damaged battery: Rinse immediately with plenty of water, als under the eyelids. Get medical attention if irritation develops and persists.				
Ingestion	Exposure to contents of an open or damaged batt medical advice/attention if you feel unwell.	ery: Rinse mouth thorou	ghly with water. Get		
Most important symptoms/effects, acute and delayed	Under normal conditions of processing and use, e product is unlikely. The battery should not be ope contained within or their combustion products cou	ned or burned. Exposure			
Indication of immediate medical attention and special treatment needed	Treat symptomatically.				
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.				
5. Fire-fighting measures					
Suitable extinguishing media	Dry chemical, foam, carbon dioxide, water fog.				
Unsuitable extinguishing media	In the event that a battery is ruptured and the inte WATER. Do not use carbon dioxide directly on ce		oosed, DO NOT USE		
Specific hazards arising from the chemical	Batteries evolve flammable hydrogen gas during charging and may increase fire risk. Contain may explode when heated.				
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protect Selection of respiratory protection for firefighting: the workplace.				
Fire fighting equipment/instructions	Use standard firefighting procedures and conside	r the hazards of other inv	volved materials.		
General fire hazards	Like any sealed container, battery cells may ruptu result in the release of corrosive and flammable m		essive heat; this could		
6. Accidental release meas	sures				
Personal precautions, protective equipment and emergency procedures	In the event of damage resulting in a leak or expo open or damaged cell or battery.	sed materials, avoid cor	tact with contents of an		
Methods and materials for containment and cleaning up	Use approved industrial vacuum cleaner for remo accordance with local authority requirements.	val. Dispose of waste ar	d residues in		
Environmental precautions	Do not allow to enter drains, sewers or watercours	ses.			
7. Handling and storage					
Precautions for safe handling	In the event of damage resulting in a leak of exposed materials, avoid contact with contents of ar open or damaged cell or battery. Keep away from heat, sparks and open flame. Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and caus battery failure and fire. Wash hands thoroughly after handling.				
Conditions for safe storage,	Store in original tightly closed container. Protect of between layers of stacked batteries to avoid dama	ontainers from damage.	Place cardboard		

Store in original tightly closed container. Protect containers from damage. Place cardboard between layers of stacked batteries to avoid damage and short circuits. including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

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Components	gulated Substances (2 Type)	Val	ue
Lead and lead compounds (inorganic) (CAS 7439-92-1)	TWA	λ.	0.0	5 mg/m3
Lead monoxide (CAS 1317-36-8)	TWA	ι.	0.0	5 mg/m3
US. ACGIH Threshold Lim				
Components	Туре)	Val	ue
Lead and lead compounds (inorganic) (CAS 7439-92-1)	TWA	ι.	0.0	5 mg/m3
Lead monoxide (CAS 1317-36-8)	TWA	A.	0.0	5 mg/m3
US. NIOSH: Pocket Guide				
Components	Туре)	Val	ue
Lead and lead compounds (inorganic) (CAS 7439-92-1)	TWA	۱.	0.0	5 mg/m3
Lead monoxide (CAS 1317-36-8)	TWA	ι.	0.0	5 mg/m3
ological limit values	No biological expos	sure limits noted for	the ingredient(s)	
ACGIH Biological Exposu	re Indices			
Components	Value	Determinant	Specimen	Sampling Time
Lead and lead compounds (inorganic) (CAS 7439-92-1)	200 µg/l	Lead	Blood	*
* - For sampling details, plea	ase see the source doc	ument.		
			easy access to w	ater supply and eye wash facilities.
* - For sampling details, plea propriate engineering	Provide adequate v	entilation. Provide	-	ater supply and eye wash facilities.
* - For sampling details, plea propriate engineering ntrols	Provide adequate v s, such as personal p	rotective equipme conditions. Leak f	ent	
* - For sampling details, plea propriate engineering ntrols lividual protection measure	Provide adequate v s, such as personal p None under normal	rotective equipme conditions. Leak f	ent	ater supply and eye wash facilities. r opened battery: Wear safety glasses wi
* - For sampling details, plea propriate engineering ntrols lividual protection measure Eye/face protection	Provide adequate v s, such as personal p None under normal side shields (or gog	rentilation. Provide rotective equipme conditions. Leak fi ggles).	ent rom a damaged o	
* - For sampling details, plea propriate engineering ntrols lividual protection measure Eye/face protection Skin protection	Provide adequate v s, such as personal p None under normal side shields (or gog None under normal	rentilation. Provide rotective equipme conditions. Leak fi ggles).	ent rom a damaged o	r opened battery: Wear safety glasses w
* - For sampling details, plea propriate engineering ntrols lividual protection measure Eye/face protection Skin protection Hand protection	Provide adequate v s, such as personal p None under normal side shields (or gog None under normal chemical resistant g	rentilation. Provide rotective equipme conditions. Leak fi ggles). conditions. Leak fi gloves.	rom a damaged o rom a damaged o	r opened battery: Wear safety glasses w
 * - For sampling details, please propriate engineering neering neering bividual protection measures Eye/face protection Skin protection Hand protection Skin protection 	Provide adequate v s, such as personal p None under normal side shields (or gog None under normal chemical resistant o None under normal	rentilation. Provide rotective equipme conditions. Leak fi ggles). conditions. Leak fi gloves.	rom a damaged o rom a damaged o	r opened battery: Wear safety glasses w r opened battery: Wear appropriate
* - For sampling details, plea propriate engineering ntrols lividual protection measures Eye/face protection Skin protection Hand protection Skin protection Other	Provide adequate v s, such as personal p None under normal side shields (or gog None under normal chemical resistant g None under normal clothing.	rentilation. Provide rotective equipme conditions. Leak fi ggles). conditions. Leak fi gloves. conditions. Leak fi	rom a damaged o rom a damaged o rom a damaged o	r opened battery: Wear safety glasses w r opened battery: Wear appropriate r opened battery: Wear suitable protectiv

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Lead, solid.
Color	Not available.
Odor	None specific.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	486 - 680 °F (252.22 - 360 °C)

Initial boiling point and boiling range	> 2516 °F (> 1380 °C) (760 mmHg)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Will not occur.

reactions	
Conditions to avoid	Overcharging. Ignition sources.
Incompatible materials	Water. Strong reducing agents. Strong bases. Strong oxidizers.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide (CO2). Varying hydrocarbon compounds.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Exposure to contents of an open or damaged battery: Harmful if inhaled.
Skin contact	Exposure to contents of an open or damaged battery: Dust may irritate skin.
Eye contact	Exposure to contents of an open or damaged battery: Dust may irritate the eyes.
Ingestion	Exposure to contents of an open or damaged battery: Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Exposure to contents of an open or damaged battery: Dust may irritate the eyes and the respiratory system.
Information on toxicological effe	ects
Acute toxicity	Not relevant, due to the form of the product.
Skin corrosion/irritation	Exposure to contents of an open or damaged battery: May cause skin irritation.
Serious eye damage/eye irritation	Exposure to contents of an open or damaged battery: May cause eye irritation.
Respiratory or skin sensitizatior	1
Respiratory sensitization	No data available.
Skin sensitization	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	

IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monoxide (CAS 1317-36-8) NTP Report on Carcinogens		2B Possibly carcinogenic to humans. 2A Probably carcinogenic to humans.	
Lead monoxide (CAS 131 OSHA Specifically Regulate	s (inorganic) (CAS 7439-92-1) '7-36-8) d Substances (29 CFR 1910.1(Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen. 001-1053)	
Not regulated.			
Reproductive toxicity	None under normal conditions fertility or the unborn child.	. Exposure to contents of an open or damaged battery: May damage	
Specific target organ toxicity - single exposure	No data available.		
Specific target organ toxicity - repeated exposure	None under normal conditions. Exposure to contents of an open or damaged battery: May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Due to the physical form of the	e product it is not an aspiration hazard.	
Chronic effects		en or damaged battery: Heavy lead exposure may result in central ephalopathy and damage to the blood-forming (hematopoietic)	

12. Ecological information

Ecotoxicity

None under normal conditions. Exposure to contents of an open or damaged battery: Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Lead and lead compounds (i	norganic) (C	AS 7439-92-1)	
	LC50	Rainbow trout, donaldson trout (Oncorhynhus mykiss)	1.17 mg/l, 96 Hours
Lead monoxide (CAS 1317-3	86-8)		
Aquatic			
Crustacea	LC50	Water flea (Daphnia magna)	0.132 mg/l, 48 Hours
sistence and degradability	The degra	adation half-life of the product is not known	n. Lead and its compounds are highly persisten
accumulative potential		nulation of lead occurs in aquatic and terre ulation occurs through the food chain.	strial animals and plants, but very little
bility in soil	If the proc groundwa		will or may be mobile and may contaminate
bility in general	The produ	uct is insoluble in water and will spread on	water surfaces.
er adverse effects	None kno	wn.	

13. Disposal considerations

Disposal instructions	Recycle the batteries, as the primary disposal method. Return lead-acid batteries to distributor, manufacturer or lead smelter for recycling. Avoid discharge into water courses or onto the ground. Dispose of in accordance with local regulations.
Local disposal regulations	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Hazardous waste code	RCRA: Spent lead-acid batteries are not regulated as hazardous waste when recycled.
Waste from residues / unused products	Avoid discharge into water courses or onto the ground.
Contaminated packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

S federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communicat Standard, 29 CFR 1910.1200	5. Regulatory informatio			
Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Lead and lead compounds (inorganic) (CAS 7439-92-1) Listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Lead and lead compounds (inorganic) (CAS 7439-92-1) Reproductive toxicity Central nervous system Kidney Blood Accute toxicity uperfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical Classified hazard Acute toxicity (any route of exposure) categories Reproductive toxicity (single or repeated exposure) SARA 313 (TRI reporting) Chemical name CAS number % by wt. Lead and lead compounds (inorganic) 7439-92-1 90 - 94 ther federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monxide (CAS 1317-36-8) US. Massachusetts RTK - Substance List Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monxide (CAS 1317-38-8) US. Massachusetts RTK - Substance List Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monxide (CAS 1317-38-8) US. New Jersey Worker and Community Right-to-Know Act Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monoxide (CAS 1317-38-8) US. New Jersey Worker and Community Right-to-Know Law Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monoxide (CAS 1317-38-8) US. New Jersey Worker and Community Right-to-Know Law Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monoxide (CAS 1317-38-8) US. New Jersey Worker and Community Right-to-Know Law Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monoxide (CAS 1317-38-8) US. New Jersey Worker and Community Right-to-Know Law Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monoxide (CAS 1317-38-8) US. New Jersey Worker and Community Right-to-Know Law Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monoxide (CAS 1317-38-8) US. New Jersey Worker	S federal regulations	Standard, 29 CFR 1910.1200).	-
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California Proposition 65



WARNING: Cancer and Reproductive Harm. www.P65warnings.ca.gov or

PROPOSITION 65 WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. WASH HANDS AFTER HANDLING.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Lead and lead compounds (inorganic) (CAS 7439-92-1)	Listed: October 1, 1992		
Lead monoxide (CAS 1317-36-8)	Listed: October 1, 1992		
California Proposition 65 - CRT: Listed date/Develop	mental toxin		
Lead and lead compounds (inorganic) (CAS 7439-92-1)	Listed: February 27, 1987		
California Proposition 65 - CRT: Listed date/Female reproductive toxin			
Lead and lead compounds (inorganic) (CAS 7439-92-1)	Listed: February 27, 1987		
California Proposition 65 - CRT: Listed date/Male rep	roductive toxin		
Lead and lead compounds (inorganic) (CAS 7439-92-1)	Listed: February 27, 1987		
US. California. Candidate Chemicals List. Safer Cons subd. (a))	sumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,		

Lead and lead compounds (inorganic) (CAS 7439-92-1) Lead monoxide (CAS 1317-36-8)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	19-September-2017
Revision date	08-January-2018
Version #	02
List of abbreviations	TWA: Time Weighted Average. LC50: Lethal Concentration 50%. SVHC: Substance of Very High Concern.
References	IARC Monographs. Overall Evaluation of Carcinogenicity Registry of Toxic Effects of Chemical Substances (RTECS)
Disclaimer	The information in this SDS was obtained from sources which we believe are reliable, but no warranty or representation as to its accuracy or completeness is hereby given. Users should consider the information herein only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal, the safety and health of employees and customers and the protection of the environment.