



1. Identification

Product identifier	Valve Regulated Lead Acid Battery	
Other means of identification		
-	Non-Spillable Lead Acid Battery, Sealed Lead Acid Battery	
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
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Carcinogenicity	Category 1A
	Reproductive toxicity	Category 1A
	Reproductive toxicity	Effects on or via lactation
	Specific target organ toxicity, single exposure	Category 1 (respiratory system)
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 1 (respiratory system)
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		



Signal word Hazard statement Danger

The materials contained in this product may only represent a hazard if the integrity of the cell or battery is compromised; physically, thermally, or electrically abused. The below are the hazards anticipated under those conditions:

Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause cancer. May damage fertility or the unborn child. May cause harm to breast-fed children. Causes damage to organs (respiratory system). Causes damage to organs (respiratory system) 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/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Avoid contact during pregnancy/while nursing. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.		
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Collect spillage.		
Storage	Store in a well-ventilated place. Keep container tightly closed.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations. Refer to manufacturer/supplier for information on recovery/recycling.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	In use, may form flammable/explosive vapor-air mixture.		
	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

Mixtures CAS number **Chemical name** % 7439-92-1 60 - 75 Lead and lead compounds 5 - 15 Sulphuric acid 7664-93-9 All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in **Composition comments** percent by volume. The manufacturer has claimed the exact percentage as trade secret under the OSHA Hazard Communication Standard. 4. First-aid measures Inhalation Exposure to contents of an open or damaged battery: Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues. Exposure to contents of an open or damaged battery: Immediately flush with plenty of water for at Skin contact least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. Exposure to contents of an open or damaged battery: Flush thoroughly with water for at least 15 Eve contact minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Get medical attention if irritation develops and persists. Exposure to contents of an open or damaged battery: Rinse mouth thoroughly with water. DO NOT Ingestion induce vomiting because of danger of aspirating liquid into lungs. Get medical attention immediately. Under normal conditions of processing and use, exposure to the chemical constituents in this Most important product is unlikely. The battery should not be opened or burned. Exposure to the ingredients symptoms/effects, acute and contained within or their combustion products could be harmful. Abdominal pain. Burning pain and delayed severe corrosive skin damage. Causes serious eye damage. Symptoms include itching, burning, redness and tearing. May cause respiratory irritation. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues. Permanent eye damage including blindness could result. Indication of immediate Treat symptomatically. medical attention and special treatment needed 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. In the event that a battery is ruptured and the internal components are exposed. DO NOT USE Unsuitable extinguishing media WATER. Do not use carbon dioxide directly on cells.

Specific hazards arising from the chemical	Batteries evolve flammable hydrogen gas during charging and may increase fire risk. Containers may explode when heated.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of corrosive and flammable materials.
6 Accidental release measure	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid contact with skin.
Methods and materials for containment and cleaning up	Neutralize the spilled material before disposal. Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose of waste and residues in accordance with local authority requirements.
Environmental precautions	Prevent runoff from entering drains, sewers, or streams.
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 an 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 cause battery failure and fire. Pregnant or breastfeeding women must not handle this product.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Protect containers from damage. Place cardboard between layers of stacked batteries to avoid damage and short circuits.

8. Exposure controls/personal protection

Occupational exposure limits

Components	Тур	е	١	/alue	
Lead and lead compounds (CAS 7439-92-1)	TW	Ą	().05 mg/m3	
US. OSHA Table Z-1 Limit	s for Air Contaminan	ts (29 CFR 1910.10	000)		
Components	Тур	e	۰ ۱	/alue	
Sulphuric acid (CAS 7664-93-9)	PEL	-	1	l mg/m3	
US. ACGIH Threshold Lim	nit Values				
Components	Тур	e	١	/alue	Form
Lead and lead compounds (CAS 7439-92-1)	TW	4	().05 mg/m3	
Sulphuric acid (CAS 7664-93-9)	TW	4	().2 mg/m3	Thoracic fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards				
Components	Тур	e	١	/alue	
Lead and lead compounds (CAS 7439-92-1)	TW	Ą	().05 mg/m3	
Sulphuric acid (CAS 7664-93-9)	TW	4	1	I mg/m3	
ogical limit values	No biological expo	sure limits noted for	r the ingredient	(s).	
ACGIH Biological Exposu	re Indices				
Components	Value	Determinant	Specimen	Sampling [•]	Time
Lead and lead compounds (CAS 7439-92-1)	200 µg/l	Lead	Blood	*	

* - For sampling details, please see the source document.

Appropriate engineering controls	Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.	
Individual protection measures,	such as personal protective equipment	
Eye/face protection	None under normal conditions. Leak from a damaged or opened battery: Wear safety glasses with side shields (or goggles) and a face shield.	
Skin protection		
Hand protection	None under normal conditions. Leak from a damaged or opened battery: Wear appropriate chemical resistant gloves. Glove material: Nitrile rubber Layer thickness: 0.152 or 0.381 mm Breakthrough time: 240 or 480 min. Suitable gloves can be recommended by the glove supplier.	
Skin protection		
Other	None under normal conditions. Leak from a damaged or opened battery: Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.	
Respiratory protection	None under normal conditions.	
Thermal hazards	When material is heated, wear gloves to protect against thermal burns.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	
9. Physical and chemical p	roperties	
Appearance		
Physical state	Solid.	
Form	Sulfuric acid, gelatinous. Lead, solid.	
Color	Not available.	
Odor	Odorless.	
Odor threshold	Not available.	
рН	< 1	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	235 - 240 °F (112.8 - 115.6 °C) (Sulfuric acid)	
Flash point	Below room temperature (as hydrogen gas).	
Evaporation rate	< 1 (n-BuAc=1)	
Flammability (solid, gas)		
Upper/lower flammability or expl	osive limits	
Flammability limit - lower (%)	4 % (Hydrogen)	
Flammability limit - upper (%)	74 % (Hydrogen)	
Vapor pressure	10 mm Hg	
Vapor density	> 1 (Air=1)	
Relative density	1.27 - 1.33	
Solubility(ies)		
Solubility (water)	100 % (Sulfuric acid)	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	

The product is non-reactive under normal conditions of use, storage and transport.

Stable at normal conditions.

Not available.

Not available.

Not explosive.

Not oxidizing.

Decomposition temperature

Explosive properties Oxidizing properties

10. Stability and reactivity

Viscosity

Reactivity

Other information

Chemical stability

Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Overcharging. Ignition sources.
Incompatible materials	Strong bases. Combustible organic materials. Reducing agents. Finely divided metals. Strong oxidizers. Water.
Hazardous decomposition products	Sulfur dioxide. Sulfur trioxide. Carbon monoxide. Sulfuric acid. Hydrogen.

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: Causes severe skin burns.		
Eye contact	Exposure to contents of an open or damaged battery: Causes serious eye damage.		
Ingestion	Exposure to contents of an open or damaged battery: Harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	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. Exposure to contents of an open or damaged battery: Dust may irritate the eyes and the respiratory system. Abdominal pain. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.		

Information on toxicological effects

Acute toxicity	Exposure to contents of an open or damaged battery: Harmful if inhaled or swallowed.			
Components	Species	Test Results		
Sulphuric acid (CAS 7664-93-9)				
Acute				
Oral				
LD50	Rat	2140 mg/kg		
Skin corrosion/irritation	Exposure to contents of an	open or damaged battery: Causes severe skin burns.		
Serious eye damage/eye irritation	Exposure to contents of an	open or damaged battery: Causes serious eye damage.		
Respiratory or skin sensitization				
Respiratory sensitization	No data available.			
Skin sensitization	No data available.	No data available.		
Germ cell mutagenicity	No data available.			
Carcinogenicity	The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.			
IARC Monographs. Overall	Evaluation of Carcinogenic	ity		
Lead and lead compound Sulphuric acid (CAS 766	4-93-9)	2B Possibly carcinogenic to humans. 1 Carcinogenic to humans.		
NTP Report on Carcinogens		Decembly Anticipated to be a Llymon Consistent		
Sulphuric acid (CAS 766 OSHA Specifically Regulate				
Not listed.		,		
Reproductive toxicity	None under normal conditions. Exposure to contents of an open or damaged battery: May cause harm to breastfed babies. May damage fertility or the unborn child.			
Specific target organ toxicity - single exposure	None under normal conditions. Exposure to contents of an open or damaged battery: Causes damage to organs (respiratory system). May cause respiratory irritation.			
Specific target organ toxicity - repeated exposure	None under normal conditions. Exposure to contents of an open or damaged battery: Causes damage to organs through prolonged or repeated exposure: Respiratory system.			

Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.	
Chronic effects	Exposure to contents of an open or damaged battery: Heavy lead exposure may result in centra nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues. Chronic inhalation of sulfuric acid mist may increase the risk of lung cancer.	
Further information	Exposure to contents of an open or damaged battery: Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.	

12. Ecological information

Ecotoxicity	None under normal conditions. Exposure to contents of an open or damaged battery: Very toxic aquatic life with long lasting effects.		
Components	Species	Test Results	
Lead and lead compounds (C	AS 7439-92-1)		
	LC50 Rainbow trout, donaldson trou (Oncorhynhus mykiss)	ut 1.17 mg/l, 96 Hours	
Persistence and degradability	The degradation half-life of the product is not known. Lead and its compounds are highly persistent in water.		
Bioaccumulative potential	Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants, but very little bioaccumulation occurs through the food chain.		
Mobility in soil	If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.		
Mobility in general	The product is insoluble in water and will spread on water surfaces.		
Other adverse effects	None known.		
13. Disposal consideratio	ns		
Disposal instructions	Recycle the batteries, as the primary disposal method. Neutralize electrolyte/sulfuric acid. 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. Depending upon circumstances, the following waste codes may apply: Spilled electrolyte/Sulfuric acid. D002: Corrosive waste		
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.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

General informationDOT: Not regulated per 49 CFR 173.159a.
IATA/ICAO: Not regulated per Special Provision A67.
IMDG: Not regulated per Special Provision #238.

Not applicable.

Label: NONSPILLABLE

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Hazardous Chemical Reporting Requirements apply when an Extremely Hazardous Substance is present at a facility in an amount equal to or exceeding 500 pounds or the Threshold Planning Quantity, whichever is lower per 40CFR370.10(a)(1)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Lead and lead compounds (CAS 7439-92-1) 0.1 % Annual Export Notification required.

CERCLA Hazardous Substance List (40 CFR 302.4)

Lead and lead compounds (CAS 7439-92-1) Sulphuric acid (CAS 7664-93-9)

Listed.

1000 LBS

SARA 304 Emergency release notification

SULFURIC ACID (CAS 7664-93-9)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Lead and lead compounds (CAS 7439-92-1)

Reproductive toxicity Central nervous system Kidney Blood Acute toxicity

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Sulphuric acid	7664-93-9	1000	1000		
SARA 311/312 Hazardou chemical	u s Yes				
Classified hazard categories	Skin corros Serious ey Carcinoger Reproducti	ve toxicity		xposure)	
SARA 313 (TRI reporting	g)				
Chemical name		C	AS number	% by wt.	
Lead and lead comp Sulphuric acid	ounds		7439-92-1 7664-93-9	60 - 75 5 - 15	
er federal regulations					
Clean Air Act (CAA) Sec	tion 112 Hazard	ous Air Polluta	nts (HAPs) List		
Clean Air Act (CAA) See	ction 112(r) Accie	dental Release	Prevention (40 CFR 6	8 130)	
Sulphuric acid (CAS Safe Drinking Water Ac	7664-93-9)		ulated under the Safe		
Sulphuric acid (CAS Safe Drinking Water Ac (SDWA)	7664-93-9) t Contains co	omponent(s) reg	ulated under the Safe		310.04(f)(2) and
Sulphuric acid (CAS Safe Drinking Water Ac (SDWA) Drug Enforcement	7664-93-9) t Contains co Administration (I nber	omponent(s) reg	ulated under the Safe	Drinking Water Act.	310.04(f)(2) and
Sulphuric acid (CAS Safe Drinking Water Ac (SDWA) Drug Enforcement Chemical Code Nur Sulphuric acid (0	7664-93-9) t Contains co Administration (I nber CAS 7664-93-9)	omponent(s) reg DEA). List 2, Es	ulated under the Safe sential Chemicals (21 6552	Drinking Water Act.	
Sulphuric acid (CAS Safe Drinking Water Act (SDWA) Drug Enforcement Chemical Code Nur Sulphuric acid (C Drug Enforcement Sulphuric acid (C	7664-93-9) t Contains of Administration (I nber CAS 7664-93-9) Administration (I CAS 7664-93-9)	omponent(s) reg DEA). List 2, Es DEA). List 1 & 2	ulated under the Safe sential Chemicals (21 6552	Drinking Water Act. 1 CFR 1310.02(b) and 1	
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or

California Proposition 65

WARNING:	Cancer and Reproductive Harm. www.P65warnings.ca.gov	
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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 (CAS 7439-92-1)	Listed: October 1, 1992	
Sulphuric acid (CAS 7664-93-9)	Listed: March 14, 2003	
California Proposition 65 - CRT: Listed date/Developmental toxin		

Lead and lead compounds (CAS 7439-92-1) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Female reproductive toxin

Lead and lead compounds (CAS 7439-92-1) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Lead and lead compounds (CAS 7439-92-1) Listed: February 27, 1987

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Lead and lead compounds (CAS 7439-92-1) Sulphuric acid (CAS 7664-93-9)

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	31-August-2020
Version #	03
List of abbreviations	LC50: Lethal Concentration 50%. LD50: Lethal Dose 50%.
References	IARC Monographs. Overall Evaluation of Carcinogenicity Registry of Toxic Effects of Chemical Substances (RTECS)

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