SAFETY DATA SHEET



1. Identification			
Product identifier	Lood Acid Pottony Wat Filled With Acid		
Other means of identification	Lead Acid Battery Wet, Filled With Acid		
Synonyms	may include gel/absorbed electrolyte type lead	l acid batteries	
Recommended use	Electric storage battery.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/			
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	USA/Canada: CHEMTREC (800) 424-9300, O	utside USA 1 (703) 527-3887	
number E-mail	contactus@eastpenn-deka.com		
2. Hazard(s) identification			
	Furthering Observiced District 4.2		
Physical hazards	Explosive Chemical, Division 1.3		
Health hazards	Acute toxicity, oral	Category 4	
	Acute toxicity, inhalation	Category 4	
	Skin corrosion/irritation	Category 1A Category 1 Category 1A	
	Serious eye damage/eye irritation		
	Carcinogenicity		
	Reproductive toxicity	Category 1A	
	Specific target organ toxicity, single exposure		
	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	Danger		
Hazard statement	cancer. May damage fertility or the unborn chil	es severe skin burns and eye damage. May cause ld. Causes damage to organs (respiratory system).) through prolonged or repeated exposure. May ic life with long lasting effects.	
Precautionary statement			
Prevention	and understood. Keep away from heat/sparks/ breathe dust/mist/vapors. Wash thoroughly aft	handle until all safety precautions have been read open flames/hot surfaces No smoking. Do not er handling. Do not eat, drink or smoke when using optilated area. Avoid release to the environment	

this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

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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	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.		
Supplemental information	In use, may form flammable/explosive vapor-air mixture.		

3. Composition/information on ingredients

Mixture	es			
Che	mical	nar	ne	

Lead and lead compounds (inorganic)		7439-92-1	43 - 70
Electrolyte (Sulfuric acid)		7664-93-9	20 - 44
Antimony		7440-36-0	3 - 5
Composition comments	All concentrations are in percent by weight upercent by volume. Content composition concentrations will var		s concentrations are in
4. First-aid measures			
Inhalation	Exposure to contents of an open or damage person under observation. Get medical atter	, , ,	
Skin contact	Exposure to contents of an open or damage least 15 minutes while removing contaminat irritation develops and persists.	, ,	
Eye contact	Exposure to contents of an open or damage minutes. Hold eyelids open during flushing. attention if irritation develops and persists.		
Ingestion	Exposure to contents of an open or damage induce vomiting because of danger of aspira immediately.		
Most important symptoms/effects, acute and delayed	Under normal conditions of processing and product is unlikely. The battery should not b contained within or their combustion produc Heavy lead exposure may result in central n to the blood-forming (hematopoietic) tissues	e opened or burned. Exposur ts could be harmful. ervous system damage, ence	e to the ingredients
Indication of immediate medical attention and special treatment needed	Treat symptomatically.		
General information	Ensure that medical personnel are aware of protect themselves.	the material(s) involved, and	take precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Dry chemical, foam, carbon dioxide, water fo	og.	
Unsuitable extinguishing media	Do NOT use water on live electrical circuits.		
Specific hazards arising from the chemical	Batteries evolve flammable hydrogen gas d may explode when heated.	uring charging and may increa	ase fire risk. Containers
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full Selection of respiratory protection for firefighthe workplace.		
Fire fighting equipment/instructions	Use standard firefighting procedures and co	nsider the hazards of other in	volved materials.
General fire hazards	Like any sealed container, battery cells may result in the release of corrosive and flamma		cessive heat; this could

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CAS number

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.

Conditions for safe storage, sincluding any incompatibilities b

battery failure and fire. 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	Туре		Va	alue	
Lead and lead compounds (inorganic) (CAS 7439-92-1)	s TWA		0.0	05 mg/m3	
US. OSHA Table Z-1 Limit	ts for Air Contaminants	(29 CFR 1910.10	000)		
Components	Туре		Va	alue	
Antimony (CAS 7440-36-0)	PEL		0.	5 mg/m3	
Electrolyte (Sulfuric acid) (CAS 7664-93-9)	PEL		1	mg/m3	
US. ACGIH Threshold Lim	nit Values				
Components	Туре		Va	alue	Form
Antimony (CAS 7440-36-0)) TWA		0.4	5 mg/m3	
Electrolyte (Sulfuric acid) (CAS 7664-93-9)	TWA		0.2	2 mg/m3	Thoracic fraction.
Lead and lead compounds (inorganic) (CAS 7439-92-1)	s TWA		0.0	05 mg/m3	
US. NIOSH: Pocket Guide	to Chemical Hazards				
Components	Туре		Va	alue	
Antimony (CAS 7440-36-0)	TWA		0.	5 mg/m3	
Electrolyte (Sulfuric acid) (CAS 7664-93-9)	TWA		1	mg/m3	
Lead and lead compounds (inorganic) (CAS 7439-92-1)	s TWA		0.	05 mg/m3	
logical limit values	No biological expos	ure limits noted fo	r the ingredient(s	s).	
ACGIH Biological Exposu	re Indices				
Components	Value	Determinant	Specimen	Sampling	Time
Lead and lead compounds (inorganic) (CAS 7439-92-1)	s 200 µg/l	Lead	Blood	*	
* - For sampling details, ple	ease see the source docu	ument.			
ropriate engineering			easy access to	water supply a	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).

Skin protection	
Hand protection	None under normal conditions. Leak from a damaged or opened battery: Wear appropriate chemical resistant gloves.
Skin protection	
Other	None under normal conditions. Leak from a damaged or opened battery: Wear suitable protective 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 properties

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Appearance	
Physical state	Solid.
Form	Sulfuric acid, liquid. 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 (112.78 - 115.56 °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	losive 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.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity Chemical	The product is non-reactive under normal conditions of use, storage and transport.
stability Possibility of	Stable at normal conditions.
hazardous	Will not occur.
reactions	
Conditions to avoid	Overcharging. Ignition sources.
Incompatible materials	Strong bases. Combustible organic materials. Reducing agents. Finely divided metals. Strong oxidizers. Water.

Hazardous decomposition Sulfur dioxide. Sulfur trioxide. Carbon monoxide. Sulfuric acid. Hydrogen. products

11. Toxicological information

Information on like	y routes of exposure
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Inhalation	Exposure to contents of an open or damaged battery: Harmful if inhaled. Causes severe respiratory tract irritation.
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	Exposure to contents of an open or damaged battery: Dust may irritate the eyes and the respiratory system.

Information on toxicological effects

Acute toxicity	Exposure to contents of an open or damaged battery: Harmful if inhaled or swallowed.		
Components	Species	Test Results	
Electrolyte (Sulfuric acid) (CAS 76	64-93-9)		
Acute			
Oral	D (
LD50	Rat	2140 mg/kg	
Skin corrosion/irritation		en or damaged battery: Causes severe skin burns.	
Serious eye damage/eye irritation	Exposure to contents of an op	en or damaged battery: Causes serious eye damage.	
Respiratory or skin sensitization			
Respiratory sensitization	No data available.		
Skin sensitization	No data available.		
Germ cell mutagenicity	No data available.		
Carcinogenicity	mists containing sulfuric acid"	Research on Cancer (IARC) has classified "strong inorganic acid as a known human carcinogen, (IARC category 1). This nists containing sulfuric acid and not to sulfuric acid or sulfuric acid	
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Electrolyte (Sulfuric acid) Lead and lead compoun NTP Report on Carcinogens	unds (inorganic) (CAS 7439-92-1) 2B Possibly carcinogenic to humans.		
	d) (CAS 7664-93-9) Known To Be Human Carcinogen. Inds (inorganic) (CAS 7439-92-1) Reasonably Anticipated to be a Human Carcinogen. ed Substances (29 CFR 1910.1001-1053)		
Reproductive toxicity	None under normal conditions fertility or the unborn child.	s. Exposure to contents of an open or damaged battery: May damage	
Specific target organ toxicity - single exposure	None under normal conditions damage to organs (respiratory	 Exposure to contents of an open or damaged battery: Causes y system). 	
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	e product it is not an aspiration hazard.	
Chronic effects	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. Chronic inhalation of sulfuric acid mist may increase the risk of lung cancer.		
12. Ecological information	1		
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. 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 (inorganic) (C		AS 7439-92-1)	
	LC50	Rainbow trout, donaldson trout (Oncorhynhus mykiss)	1.17 mg/l, 96 Hours
Persistence and degradability	The degra in water.	adation half-life of the product is not known	n. Lead and its compounds are highly persistent
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.		water surfaces.
Other adverse effects	None kno	wn.	
13 Disposal consideratio	ns		

13. Disposal considerations

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	
UN number	UN2794
UN proper shipping name	Batteries, wet, filled with acid, electric storage
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s) Packing	8
group Environmental	-
hazards	
Marine pollutant	No
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	159
Packaging non bulk	159
Packaging bulk	159
ΙΑΤΑ	
UN number	UN2794
UN proper shipping name	Batteries, wet, filled with acid electric storage
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	
Environmental hazards	No
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Packing Instruction: 870
IMDG	
UN number	
UN proper shipping name	BATTERIES, WET, FILLED WITH ACID electric storage
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	-
Environmental hazards	
Marine pollutant	No

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EmS Special precautions for us		Read safety instructions, SDS and emergency procedures before handling. Packing Instruction: P801				
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		Not applicable.				
15. Regulatory information	n					
US federal regulations	Standard, 2	9 CFR 1910.12		d by the OSHA Hazard ory List.	Communication	
	present at a	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, Su	ibpt. D)			
Not regulated. CERCLA Hazardous Subst	ance List (40 (CFR 302.4)				
Antimony (CAS 7440-36-0)Listed.Electrolyte (Sulfuric acid) (CAS 7664-93-9)Listed.Lead and lead compounds (inorganic) (CAS 7439-92-1)Listed.SARA 304 Emergency release notificationListed.						
Electrolyte (Sulfuric acio OSHA Specifically Regulat			1000 LBS 0.1001-1053)			
Lead and lead compou	nds (inorganic)	(CAS 7439-92-	· ·	-		
			Central nervous sy Kidney	vstem		
			Blood Acute toxicity			
Superfund Amendments and R	eauthorization	Act of 1986 (S				
SARA 302 Extremely haza						
SARA 302 Extremely haza			Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)	
SARA 302 Extremely haza Chemical name C	rdous substan	Reportable quantity	Threshold planning quantity	planning quantity, lower value	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 74	rdous substan AS number	ce Reportable quantity (pounds)	Threshold planning quantity (pounds)	planning quantity, lower value	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7 acid) SARA 311/312 Hazardous chemical Classified hazard	rdous substan AS number 564-93-9 Yes Acute toxici	ce Reportable quantity (pounds) 1000 ty (any route of	Threshold planning quantity (pounds) 1000	planning quantity, lower value	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 76 acid) SARA 311/312 Hazardous chemical	rdous substan AS number 564-93-9 Yes Acute toxici Skin corros Serious eye	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation e damage or eye	Threshold planning quantity (pounds) 1000 exposure)	planning quantity, lower value	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7 acid) SARA 311/312 Hazardous chemical Classified hazard	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation e damage or eye icity re toxicity	Threshold planning quantity (pounds) 1000 exposure) irritation	planning quantity, lower value (pounds)	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7 acid) SARA 311/312 Hazardous chemical Classified hazard categories	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation e damage or eye icity re toxicity	Threshold planning quantity (pounds) 1000 exposure)	planning quantity, lower value (pounds)	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7 acid) SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting)	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation e damage or eye icity /e toxicity get organ toxicit	Threshold planning quantity (pounds) 1000 exposure) e irritation y (single or repeated ex	planning quantity, lower value (pounds)	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7 acid) SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation damage or eye icity /e toxicity get organ toxicit	Threshold planning quantity (pounds) 1000 exposure) e irritation y (single or repeated ex	planning quantity, lower value (pounds) xposure) % by wt.	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7 acid) SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name Antimony Electrolyte (Sulfuric acid	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv Specific targ	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation damage or eye icity re toxicity get organ toxicit 7 7	Threshold planning quantity (pounds) 1000 exposure) e irritation y (single or repeated ex AS number 440-36-0 664-93-9	planning quantity, lower value (pounds) kposure) % by wt. 3 - 5 20 - 44	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7 acid) SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name Antimony Electrolyte (Sulfuric acid Lead and lead compou	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv Specific targ	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation damage or eye icity re toxicity get organ toxicit 7 7	Threshold planning quantity (pounds) 1000 exposure) e irritation y (single or repeated ex AS number 440-36-0	planning quantity, lower value (pounds) kposure) % by wt. 3 - 5	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7 acid) SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name Antimony Electrolyte (Sulfuric acid Lead and lead compound)	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv Specific targ	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation e damage or eye icity /e toxicity get organ toxicit 7 7 7 7	Threshold planning quantity (pounds) 1000 exposure) e irritation y (single or repeated ex AS number 440-36-0 664-93-9 439-92-1	planning quantity, lower value (pounds) kposure) % by wt. 3 - 5 20 - 44	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7 acid) SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name Antimony Electrolyte (Sulfuric acid Lead and lead compound Other federal regulations Clean Air Act (CAA) Section	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv Specific targ	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation e damage or eye icity /e toxicity get organ toxicit 7 7 7 7	Threshold planning quantity (pounds) 1000 exposure) e irritation y (single or repeated ex AS number 440-36-0 664-93-9 439-92-1	planning quantity, lower value (pounds) kposure) % by wt. 3 - 5 20 - 44	planning quantity, upper value	
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SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7/ acid) SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name Antimony Electrolyte (Sulfuric acid Lead and lead compou Other federal regulations Clean Air Act (CAA) Sectio Antimony (CAS 7440-34 Lead and lead compou Clean Air Act (CAA) Sectio	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv Specific targ d) nds (inorganic) n 112 Hazardo 5-0) nds (inorganic) n 112(r) Accid	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation e damage or eye icity re toxicity get organ toxicit <u>Cr</u> 7 7 7 9 ous Air Pollutar (CAS 7439-92- ental Release	Threshold planning quantity (pounds) 1000 exposure) e irritation y (single or repeated ex AS number 440-36-0 664-93-9 439-92-1 hts (HAPs) List 1)	planning quantity, lower value (pounds) kposure) % by wt. 3 - 5 20 - 44 43 - 70	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7 acid) SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name Antimony Electrolyte (Sulfuric acid Lead and lead compou Other federal regulations Clean Air Act (CAA) Sectio Antimony (CAS 7440-34 Lead and lead compou Clean Air Act (CAA) Sectio Electrolyte (Sulfuric acid	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv Specific targ d) nds (inorganic) n 112 Hazardo S-0) nds (inorganic) n 112(r) Accid d) (CAS 7664-9	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation e damage or eye icity /e toxicity get organ toxicit C/ 7 7 5 ous Air Pollutar (CAS 7439-92- ental Release 3-9)	Threshold planning quantity (pounds) 1000 exposure) e irritation y (single or repeated ex AS number 440-36-0 664-93-9 439-92-1 hts (HAPs) List 1)	planning quantity, lower value (pounds) kposure) % by wt. 3 - 5 20 - 44 43 - 70	planning quantity, upper value	
SARA 302 Extremely haza Chemical name C Electrolyte (Sulfuric 7/ acid) SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name Antimony Electrolyte (Sulfuric acid Lead and lead compou Other federal regulations Clean Air Act (CAA) Sectio Antimony (CAS 7440-34 Lead and lead compou Clean Air Act (CAA) Sectio	rdous substan AS number 664-93-9 Yes Acute toxici Skin corros Serious eye Carcinogen Reproductiv Specific targ d) nds (inorganic) n 112 Hazardo 5-0) nds (inorganic) n 112(r) Accid	ce Reportable quantity (pounds) 1000 ty (any route of ion or irritation e damage or eye icity /e toxicity get organ toxicit C/ 7 7 5 ous Air Pollutar (CAS 7439-92- ental Release 3-9)	Threshold planning quantity (pounds) 1000 exposure) e irritation y (single or repeated ex AS number 440-36-0 664-93-9 439-92-1 hts (HAPs) List 1)	planning quantity, lower value (pounds) kposure) % by wt. 3 - 5 20 - 44 43 - 70	planning quantity, upper value	

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number Electrolyte (Sulfuric acid) (CAS 7664-93-9) 6552 Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) Electrolyte (Sulfuric acid) (CAS 7664-93-9) 20 %WV DEA Exempt Chemical Mixtures Code Number Electrolyte (Sulfuric acid) (CAS 7664-93-9) 6552 US state regulations US. Massachusetts RTK - Substance List Antimony (CAS 7440-36-0) Electrolyte (Sulfuric acid) (CAS 7664-93-9) Lead and lead compounds (inorganic) (CAS 7439-92-1) US. New Jersey Worker and Community Right-to-Know Act Antimony (CAS 7440-36-0) Electrolyte (Sulfuric acid) (CAS 7664-93-9) Lead and lead compounds (inorganic) (CAS 7439-92-1) US. Pennsylvania Worker and Community Right-to-Know Law Antimony (CAS 7440-36-0) Electrolyte (Sulfuric acid) (CAS 7664-93-9) Lead and lead compounds (inorganic) (CAS 7439-92-1) US. Rhode Island RTK Antimony (CAS 7440-36-0) Electrolyte (Sulfuric acid) (CAS 7664-93-9) Lead and lead compounds (inorganic) (CAS 7439-92-1) 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 Arsenic (CAS 7440-38-2) Listed: February 27, 1987 Electrolyte (Sulfuric acid) (CAS 7664-93-9) Listed: March 14, 2003 Lead and lead compounds (inorganic) (CAS Listed: October 1, 1992 7439-92-1) California Proposition 65 - CRT: Listed date/Developmental toxin Lead and lead compounds (inorganic) (CAS Listed: February 27, 1987 7439-92-1) California Proposition 65 - CRT: Listed date/Female reproductive toxin Lead and lead compounds (inorganic) (CAS Listed: February 27, 1987 7439-92-1) California Proposition 65 - CRT: Listed date/Male reproductive toxin Lead and lead compounds (inorganic) (CAS Listed: February 27, 1987 7439-92-1) US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) Antimony (CAS 7440-36-0) Electrolyte (Sulfuric acid) (CAS 7664-93-9) Lead and lead compounds (inorganic) (CAS 7439-92-1) International Inventories Country(s) or region Inventory name On inventory (yes/no)* Australian Inventory of Chemical Substances (AICS) Australia Yes Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No Inventory of Existing Chemical Substances in China (IECSC) China Yes Europe European Inventory of Existing Commercial Chemical No Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Europe No

Lead Acid Battery Wet, Filled With Acid

923330 Version #: 03 Revision date: 28-February-2018 Issue date: 19-September-2017

Country(s) or region	Inventory name	On inventory (yes/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

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*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	28-February-2018
Version #	03
List of abbreviations	LD50: Lethal Dose 50%. LC50: Lethal Concentration 50%.
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.