E	
Ene	rsys.
	Power/Full Solutions

. PRODUCT IDENTIFICATION						
		Chamical Family/Classification				
Chemical Trade Name (as used on label): Lead-Acid Battery, Wet		Chemical Family/Classification: Electric Storage Battery				
Synonyms:		Electre Storage Battery				
Industrial Battery, Traction Battery,	Stationary Battery	Telenhone				
Deep Cycle Battery	Stationary Dattery,		<u>Telephone:</u> For information and emergencies, contact EnerSys'			
Manufacturer's Name/Address:		Environmental, Health & Safety Dept. at 610	-			
EnerSys	Canada Corporate Office	Environmental, fleatur & Safety Dept. at 610	0-200-1990			
P.O. Box 14145	3-61 Parr Boulevard	24-Hour Emergency Response Contact:				
2366 Bernville Road	Bolton, Ontario	CHEMTREC DOMESTIC: 800-424-9300 CHEMTREC INTL: 703-527-3877				
Reading, PA 19612-4145	L7E 4E3					
II GHS HAZARDS IDENTIFICA	TION					
HEAI		ENVIRONMENTAL	PHYSICAL			
Acute Toxicity		Aquatic Chronic 1	Explosive Chemical, Division 1.3			
(Oral/Dermal/Inhalation)	Category 4	Aquatic Acute 1	A			
Skin Corrosion/Irritation	Category 1A	-				
Eye Damage	Category 1					
Reproductive	Category 1A					
Carcinogenicity (lead compounds)	Category 1B					
Carcinogenicity (arsenic)	Category 1A					
Carcinogenicity (acid mist)	Category 1A					
Specific Target Organ	Category 2					
Toxicity (repeated exposure)						
GHS LABEL: HEAI		ENVIRONMENTAL	PHYSICAL			
		¥ 3				
Hazard Statements		Precautionary Statements				
		Precautionary Statements Wash thoroughly after handling.				
DANGER!	s eye damage.					
DANGER! Causes severe skin burns and seriou		Wash thoroughly after handling.	tection.			
DANGER! Causes severe skin burns and seriou May damage fertility or the unborn o		Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro	tection.			
DANGER! Causes severe skin burns and seriou May damage fertility or the unborn on nhaled.	child if ingested or	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro Avoid breathing dust/fume/gas/mist/vapors/spray.	tection.			
DANGER! Causes severe skin burns and seriou May damage fertility or the unborn of inhaled. May cause cancer if ingested or inha	child if ingested or aled.	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.				
DANGER! Causes severe skin burns and seriou May damage fertility or the unborn on nhaled. May cause cancer if ingested or inha Causes damage to central nervous sy	child if ingested or aled. ystem, blood and	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contact with internal components may cause irritation or severe bu				
DANGER! Causes severe skin burns and seriou May damage fertility or the unborn on nhaled. May cause cancer if ingested or inha Causes damage to central nervous sy sidneys through prolonged or repeat	child if ingested or aled. ystem, blood and red exposure.	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contact with internal components may cause irritation or severe bu Irritating to eyes, respiratory system, and skin.				
DANGER! Causes severe skin burns and seriou May damage fertility or the unborn of nhaled. May cause cancer if ingested or inha Causes damage to central nervous sy cidneys through prolonged or repeat May form explosive air/gas mixture	child if ingested or aled. ystem, blood and red exposure. during charging.	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contact with internal components may cause irritation or severe bu Irritating to eyes, respiratory system, and skin. Obtain special instructions before use.	rns. Avoid contact with internal acid.			
DANGER! Causes severe skin burns and seriou May damage fertility or the unborn of nhaled. May cause cancer if ingested or inha Causes damage to central nervous sy cidneys through prolonged or repeat May form explosive air/gas mixture Explosive, fire, blast, or projection h	child if ingested or aled. ystem, blood and ed exposure. during charging. nazard.	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contact with internal components may cause irritation or severe bu Irritating to eyes, respiratory system, and skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and under	rns. Avoid contact with internal acid.			
DANGER! Causes severe skin burns and seriou May damage fertility or the unborn of inhaled. May cause cancer if ingested or inha Causes damage to central nervous sy kidneys through prolonged or repeat May form explosive air/gas mixture Explosive, fire, blast, or projection h May cause harm to breast-fed childro	child if ingested or aled. ystem, blood and ted exposure. during charging. nazard. en	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contact with internal components may cause irritation or severe bu Irritating to eyes, respiratory system, and skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and under Avoid contact during pregnancy/while nursing	rrns. Avoid contact with internal acid. rstood			
DANGER! Causes severe skin burns and seriou May damage fertility or the unborn of inhaled. May cause cancer if ingested or inha Causes damage to central nervous sy kidneys through prolonged or repeat May form explosive air/gas mixture Explosive, fire, blast, or projection h May cause harm to breast-fed childr Harmful if swallowed, inhaled, or co	child if ingested or aled. ystem, blood and aed exposure. during charging. hazard. en ontact with skin	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contact with internal components may cause irritation or severe bu Irritating to eyes, respiratory system, and skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and under	rrns. Avoid contact with internal acid. rstood			
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DANGER! Causes severe skin burns and seriou May damage fertility or the unborn of inhaled. May cause cancer if ingested or inha Causes damage to central nervous sy kidneys through prolonged or repeat May form explosive air/gas mixture Explosive, fire, blast, or projection h May cause harm to breast-fed childr Harmful if swallowed, inhaled, or co	child if ingested or aled. ystem, blood and eed exposure. during charging. nazard. en ontact with skin amage.	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contact with internal components may cause irritation or severe bu Irritating to eyes, respiratory system, and skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and under Avoid contact during pregnancy/while nursing	rrns. Avoid contact with internal acid. rstood			

III. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Approximate % by
•		Wt.
Inorganic Lead Compound:		
Lead	7439-92-1	60-70
* Antimony	7440-36-0	2
* Arsenic	7440-38-2	0.2
* Calcium	7440-70-2	0.04
* Tin	7440-31-5	0.2
Electrolyte (Sulfuric Acid (H2SO4/H2O))	7664-93-9	10-30
Case Material:		5-10
Polypropylene	9003-07-0	
Polystyrene	9003-53-6	
Styrene Acrylonitrile	9003-54-7	
Acrylonitrile Butadiene Styrene	9003-56-9	
Styrene Butadiene	9003-55-8	
Polyvinylchloride	9002-86-2	
Polycarbonate, Hard Rubber, Polyethylene	9002-88-4	



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	Power/Full Solutions			ECO #: 1002580	
Othom	Fower/ Full Solutions			ECO #: 1002580	
Other:		7(2) 0(0	1.5		
	Silicon Dioxide (Gel batteries only)	7631-86-9	1-5		
	Sheet Molding Compound				
	(Glass reinforced polyester)				
	Inorganic lead and electrolyte (sulfuric acid) are the pa	· ·			
	Other ingredients may be present dependent upon bat	ery type. Contact your En	erSys representative	for additional information.	
V. FIRS	T AID MEASURES				
[nhalation					
	Sulfuric Acid: Remove to fresh air immediately. If be	0 0	kygen. Consult a phy	sician.	
	Lead: Remove from exposure, gargle, wash nose and	lips; consult physician.			
Ingestion:	<u> </u>				
	Sulfuric Acid: Give large quantities of water; do not i	nduce vomiting or aspiration	on into the lungs may	occur and can cause permanent injury or death;	
	consult a physician.				
	Lead: Consult physician immediately.				
Skin:					
	Sulfuric Acid: Flush with large amounts of water for	at least 15 minutes; remove	e contaminated clothi	ng completely, including shoes.	
	If symptoms persist, seek medical attention. Wash cor	taminated clothing before	reuse. Discard contai	minated shoes.	
	Lead: Wash immediately with soap and water.	0			
Eyes:	· · ·				
	Sulfuric Acid and Lead: Flush immediately with large	amounts of water for a lea	ast 15 minutes while	lifting lids.	
	Seek immediate medical attention if eyes have been e			C C	
V. FIRE	FIGHTING MEASURES	· · · · · · · · · · · · · · · · · · ·			
Flash Poir		Flammable Limits: I	EL = 4.1% (Hydrog)	en Gas) UEL = 74.2%	
	hing Media: CO2; foam; dry chemical. Do not use carbo				
-	ire Fighting Procedures:			······································	
Special PI	If batteries are on charge, shut off power. Use positiv	e pressure self-contained	breathing apparatus	Water applied to electrolyte generates	
	heat and causes it to spatter. Wear acid-resistant cloth	·	÷	water applied to electrolyte generates	
	*			the content of the first factor	
	But note that strings of series connected batteries may	still pose risk of electric sl	nock even when char	ging equipment is shut down.	
Unusual F	Fire and Explosion Hazards:		··· · · · · · · · · · ·		
	Highly flammable hydrogen gas is generated during cl				
	sources of ignition away from batteries. Do not allow		taneously contact ne	gative and positive terminals of cells and	
	batteries. Follow manufacturer's instructions for insta	lation and service.			
	IDENTAL RELEASE MEASURES				
Spill or L	eak Procedures:				
	Stop flow of material, contain/absorb small spills with	•		· ·	
	neutralize spilled electrolyte with soda ash, sodium bi	carbonate, lime, etc. Wear	acid-resistant clothin	ng, boots, gloves, and face shield. Do not	
	allow discharge of unneutralized acid to sewer. Acid r	nust be managed in accord	ance with local, state	, and federal requirements.	
	Consult state environmental agency and/or federal EP	Α.			
VII. HAN	NDLING AND STORAGE				
Handling	<u>:</u>				
Unless inv	volved in recycling operations, do not breach the casing o	empty the contents of the	battery. Handle care	fully and avoid tipping,	
which may	y allow electrolyte leakage. There may be increasing risk	of electric shock from strin	gs of connected batte	pries.	
-	ainers tightly closed when not in use. If battery case is b		-		
-	caps on and cover terminals to prevent short circuits. Pl		-	ntive batteries to avoid damage and short circuits	
<u>^</u>	y from combustible materials, organic chemicals, reducin	•		-	
	y nom combustible materials, organic chemicals, reducin	g substances, metals, subi	g Oxidizers and wate	. Ose banding of stretch wrap to secure items for	
shipping.					
Storage:				Con 11. Do 11. 1 and 1	
	eries in cool, dry, well-ventilated areas with impervious s	•		*	
	ored under roof for protection against adverse weather cor	-	-		
	ith adequate water supply and spill control. Avoid damage		ly from fire, sparks a	nd heat. Keep away from metallic objects could	
-	terminals on a battery and create a dangerous short-circu	it.			
Charging					
There is a	possible risk of electric shock from charging equipment a	and from strings of series c	onnected batteries, w	hether or not being charged. Shut-off power to	
chargers w	whenever not in use and before detachment of any circuit	connections. Batteries bein	g charged will gener	ate and release flammable hydrogen gas.	
Charging s	space should be ventilated. Keep battery vent caps in pos	tion. Prohibit smoking and	l avoid creation of fla	mes and sparks nearby.	
Weer fees	and are protocillar when near between being charged				

Wear face and eye protection when near batteries being charged.



SAFETY DATA SHEET

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION Exposure Limits (mg/m3) Note: N.E.= Not Established

Exposure Limits (ing/in5) (vote: 11.E.=				I		
INGREDIENTS	OSHA PEL	ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL
(Chemical/Common Names)						
Lead and Lead Compounds						
(inorganic)	0.05	0.05	0.05	0.05	0.05	0.15 (b)
Antimony	0.5	0.5	0.5	0.5	0.5	0.5 (b,e)
Arsenic	0.01	0.01	0.002	0.2	0.01	N.E
Calcium	N.E	N.E	N.E	N.E	N.E	N.E
Tin	2	2	2	2	2	N.E
Electrolyte (Sulfuric Acid)	1	0.2	1	1	0.2	0.05 (c)
Polypropylene	N.E	N.E	N.E	N.E	N.E	N.E
Polystyrene	N.E	N.E	N.E	N.E	N.E	N.E
	N.E		N.E	N.E N.E		
Styrene Acrylonitrile Acrylonitrile Butadiene	N.E	N.E	N.E	N.E	N.E	N.E
Styrene	N.E	N.E	N.E	N.E	N.E	N.E
-						
Styrene Butadiene	N.E	N.E	N.E	N.E	N.E	N.E
Polyvinylchloride	N.E	N.E	N.E	N.E	1	N.E
Polycarbonate, Hard						
Rubber, Polyethylene	N.E	N.E	N.E	N.E	N.E	N.E
Silicon Dioxide						
(Gel Batteries Only)	N.E	N.E	N.E	N.E	N.E	N.E
Sheet Molding Compound (Glass						
reinforced polyester)	N.E	N.E	N.E	N.E	N.E	N.E
NOTES:						
Handle batteries cautiously clothing, eye and face prote positive and negative termin Respiratory Protection (NIOSH/MSH None required under norma respiratory protection. <u>Skin Protection:</u>	ntilated area. If mechanical vertex to avoid spills. Make certain ction when filling, charging or nals of the batteries. Charge the A approved): I conditions. When concentration	entilation is used, co vent caps are on sea r handling batteries the batteries in areas attions of sulfuric actions	omponents must be acid-ro curely. Avoid contact with Do not allow metallic ma with adequate ventilation. id mist are known to excee	h internal components. aterials to simultaneous . General dilution vent ed the PEL, use NIOSF	sly contact both the ilation is acceptable. I or MSHA-approved	
	use rubber or plastic acid-resis	stant gloves with ell	pow-length gauntlet, acid-	resistant apron, clothin	ig and boots.	
Eye Protection:	1 . 1					
· · · · · ·	use chemical goggles or face s	hield.				
with unlimited water supply	is handled in concentrations a Acid-resistant apron. Under when adding water or electroly	severe exposure er	mergency conditions, wear		•	
IX. PHYSICAL AND CHEMICAL PR Properties Listed Below are for Electro						
-	oryte:	202 2400 E	Emosifie Courter (TTA	(0 - 1)	1 215 40 1 250	
Boiling Point:		203 - 240° F	Specific Gravity (H2		1.215 to 1.350	
Melting Point:		N/A	Vapor Pressure (mm	6,	10	
Solubility in Water:		100%	Vapor Density (AIR	,	Greater than 1	
Evaporation Rate: (Butyl	Acetate = 1)	Less than 1	% Volatile by Weigh	nt:	N/A	
	pH:	~1 to 2	Flash Point:		Below room temperatu	re (as hydrogen gas)
LEL (Lower Explosive Lin	1	4.1% (Hydrogen)	UEL (Upper Explosi	ve Limit)	74.2% (Hydrogen)	(, , , , , , , , , , , , , , , , , , ,
Appearance and Odor:						



Power/Full Solutions	ECO #:	1002580
X. STABILITY AND REACTIVITY		
Stability: Stable X_ Unstable		
This product is stable under normal conditions at ambient temperature.		
Conditions To Avoid: Prolonged overcharge; sources of ignition		
Incompatibility: (Materials to avoid)		
Sulfuric Acid: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing ag	ents,	
metals, sulfur trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flamma	ble	
hydrogen gas.		
Lead Compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrog	en	
and reducing agents.		
Arsenic compounds: strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic arsenic to form the highly toxic gas-arsi	10	
	ic.	
Hazardous Decomposition Products: Sulfuric Acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.		
Lead Compounds: High temperatures likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nasc	ant	
	em	
hydrogen may generate highly toxic arsine gas.		
Hazardous Polymerization:		
Will not occur		
XI. TOXICOLOGICAL INFORMATION		
Routes of Entry:		
Sulfuric Acid: Harmful by all routes of entry.		
Lead Compounds: Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, w	apor	
or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.		
Inhalation:		
Sulfuric Acid: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.		
Lead Compounds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.		
Ingestion:		
Sulfuric Acid: May cause severe irritation of mouth, throat, esophagus and stomach.		
Lead Compounds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to sy	stemic	
toxicity and must be treated by a physician.		
Skin Contact:		
Sulfuric Acid: Severe irritation, burns and ulceration.		
Lead Compounds: Not absorbed through the skin.		
Arsenic Compounds: Contact may cause dermatitis and skin hyper pigmentation.		
Eye Contact:		
Sulfuric Acid: Severe irritation, burns, cornea damage, and blindness.		
Lead Components: May cause eye irritation.		
Effects of Overexposure - Acute:		
Sulfuric Acid: Severe skin irritation, damage to cornea, upper respiratory irritation.		
Lead Compounds: Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep		
disturbances and irritability.		
Effects of Overexposure - Chronic:		
<u>Sulfuric Acid:</u> Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.		
Lead Compounds: Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in males and	1	
females. Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report at		
conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system		
	li uamage,	
encephalopathy and damage to the blood-forming (hematopoietic) tissues.		
Carcinogenicity: Sulfuric Acid: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid"	95.9	
Group 1 carcinogen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid or sulfuric		
	or the	
acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse		
acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse product, such as overcharging, may result in the generation of sulfuric acid mist.	10.1000	
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acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse product, such as overcharging, may result in the generation of sulfuric acid mist. <u>Lead Compounds</u> : Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 19 Appendix F, this is approximately equivalent to GHS Category 1B. <u>Proof of carcinogenicity in humans is lacking at present</u> .		
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Acute Toxicity: Inhalation LD50: <u>Electrolyte:</u> LC50 rat: 375 mg/m3; LC50: guinea pig: 510 mg/m3 <u>Elemental Lead:</u> Acute Toxicity Point Estimate = 4500 ppmV (based on lead bullion)

Elemental Arsenic: No data

Oral LD50:

<u>Electrolyte:</u> rat: 2140 mg/kg <u>Elemental Lead:</u> Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion) <u>Elemental Arsenic:</u> LD50 mouse: 145 mg/kg <u>Elemental Antimony:</u> LD50 rat: 100 mg/kg

Additional Health Data:

All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion. Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8. Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving the worksite. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment.

The 19th Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction.

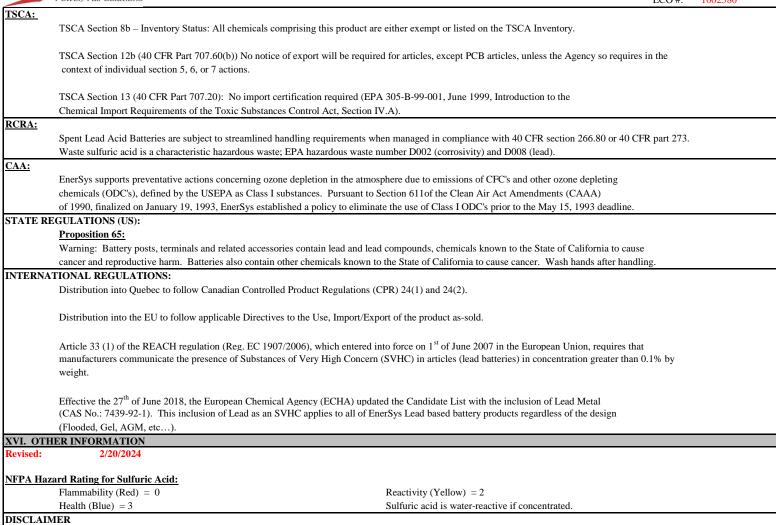
Risk phrase	61: May cause harm to the unborn child, applies to lead compounds, especi	ally soluble forms.	
XII. ECOLOGICAL I	FORMATION		
Environmental Fate:			
Lead is ver	y persistent in soil and sediments. No data on environmental degradation. M	obility of metallic lead between ecological compartments is slow.	
Bioaccumu	lation of lead occurs in aquatic and terrestrial animals and plants but little bi	oaccumulation occurs through the food chain.	
Most studie	es include lead compounds and not elemental lead.		
Environmental Toxicity	Aquatic Toxicity:		
Sulfuric acid: 24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L			
	96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L		
Lead:	48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based o	n lead bullion	
Arsenic:	24 hr LC50, freshwater fish (Carrassisus auratus) >5000 g/L.		
Additional Information	:		
 No known 	effects on stratospheric ozone depletion.		
 Volatile o 	rganic compounds: 0% (by Volume)		
· Water En	langering Class (WGK): NA		
	SIDERATIONS (UNITED STATES)		
	o secondary lead smelter for recycling. Spent lead-acid batteries are not regu	*	
40 CFR Section 266.80	are met. This should be managed in accordance with approved local, state an	d federal requirements. Consult state environmental	
agency and/or federal EF	Α.		
Electrolyte:			
•	nto sealed containers and handle as applicable with state and federal regulat	•	
	g, should be managed in accordance with approved local, state and federal re	quirements. Consult state environmental	
agency and/or federal EF			
	ovincial, and Federal/National regulations applicable to end-of-life character	istics will be the responsibility of the end-user.	
XIV. TRANSPORT IN	FORMATION		
<u>U.S. DOT:</u>			
	ortation of wet and moist charged (moist active) batteries within the continer	÷ •	
Ũ	Code of Federal Regulations, Title 49 (49CFR). These regulations classify		
Refer to 49	CFR, 173.159 for more details pertaining to the transportation of wet and m	oist batteries.	
The shipping	ng information is as follows:		
	Proper Shipping Name: Batteries, wet, filled with acid	Packing Group: N/A	
	Hazardous Class: 8	Label/Placard Required: Corrosive	
	UN Identification: UN2794		
Contact you	rr EnerSys representative for additional information regarding the classificat	ion of batteries.	
49 CFR 173.159(e) spec	ifies that when transported by highway or rail, electric storage batteries cont	aining electrolyte or corrosive battery fluid are not subject to	
	f this subchapter, if all of the following are met:		
	r hazardous materials may be transported in the same vehicle;		
	teries must be loaded or braced so as to prevent damage and short circuits in	transit;	
	er material loaded in the same vehicle must be blocked, braced, or otherwise		
· · · ·	sport vehicle may not carry material shipped by any person other than the sl	* *	
	enced requirements are not met, the batteries must be shipped as fully-regula		



SAFETY DATA SHEET

Power/Full Solutions		ECO #: 1002580
ATA Dangerous Goods Regulations DGR:		
The international transportation of wet and moist charg	ed (moist active) batteries is	regulated by the International Air Transport Association
(IATA). These regulations also classify these types of b	patteries as a hazardous mate	rial. The batteries must be packed according to
IATA Packing Instruction 870.		
-		
The shipping information is as follows:	must filled mith said	Dealing Croury, N/A
Proper Shipping Name: Batteries,	wet, filled with acid	Packing Group: N/A
Hazardous Class: 8		Label/Placard Required: Corrosive
UN Identification: UN2794		
Contact your EnerSys representative for additional info	rmation regarding the classif	cation of batteries.
MDG:		
The international transportation of wet and moist charg	ed (moist active) batteries is	regulated by the International Maritime Dangerous
Goods code (IMDG). These regulations also classify the	ese types of batteries as haza	rdous material. The batteries must be packed according to
IMDG code pages 8120 and 8121. IMDG Code Packin	g Instruction P801.	
The shipping information is as follows:		
Proper Shipping Name: Batteries,	wet, filled with acid	Packing Group: N/A
Hazardous Class: 8		Label/Placard Required: Corrosive
UN Identification: UN2794		1
	motion recording the close	action of hettories
Contact your EnerSys representative for additional info	iniation regarding the classif	cation of batteries.
IV. REGULATORY INFORMATION INITED STATES:		
PA SARA Title III:		
ection 302 EPCRA Extremely Hazardous Substances (EHS):		
Sulfuric acid is a listed "Extremely Hazardous Substand		
1		esent at one site (40 CFR 370.10). For more information consult
40 CFR Part 355. The quantity of sulfuric acid will vary	/ by battery type. Contact you	r EnerSys representative for additional information.
ection 304 CERCLA Hazardous Substances:		
Reportable Quantity (RQ) for spilled 100% sulfuric acid	d under CERCLA (Superfund	l) and
EPCRA (Emergency Planning and Community Right to	Know Act) is 1,000 lbs. Sta	te and local reportable quantities for spilled sulfuric acid may vary.
ection 311/312 Hazard Categorization:		
EPCRA Section 312 Tier Two reporting is required for	non-automotive batteries if s	ulfuric acid is present in quantities of 500 lbs or more and/or if lead is
present in quantities of 10,000 lbs or more. For more in	formation consult 40 CFR 37	'0.10 and 40 CFR 370.40
ection 313 EPCRA Toxic Substances:		
40 CFR section 372.38 (b) states: If a toxic chemical is	present in an article at a cov	ered facility, a person is not required to consider the quantity of the
toxic chemical present in such article when determining	g whether an applicable thres	hold has been met under § 372.25, § 372.27, or § 372.28 or
determining the amount of release to be reported under	§ 372.30. This exemption ap	plies whether the person received the article from another person
or the person produced the article. However, this exemption	ption applies only to the quar	tity of the toxic chemical present in the article.
Supplier Notification:		
**	portable under EPCRA Sect	on 313 Toxic Chemical Release Inventory (Form R) requirements.
* · · ·	·	prmation is provided to enable you to complete the required reports:
<u>n jou are a manufacturing normy ander pro-codes 20</u>	inough 59, the following hit	
Toxic Chemical	CAS Number	Approximate 0/ by W/t
		Approximate % by Wt.
Lead	7439-92-1	60
Electrolyte	7664-93-9	10 - 30
(Sulfuric Acid (H2SO4/H2O))		
* Antimony	7440-36-0	2
* Arsenic	7440-38-2	0.2
Tin	7440-31-5	0.2
See 40 CRG Part 370 for more details.		
If you distribute this product to other manufacturers in	SIC Codes 20 through 39 thi	s information must be provided with the first shipment
of each calendar year.	510 00005 20 unough 57, un	a mornadou must de provided with the mist simplifient
or caen calendar year.		
The Section 313 supplier notification requirement does	not apply to bettering which	ara "concumer products"
The Section 515 supplier notification requirement does	not apply to patteries, which	are consumer products .
* Not present in all battery types. Contact your Enersy		





This Safety Data Sheet is created by the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent allowed by law, the manufacturer hereby expressly disclaims any liability to any third party, including users of this product, including, but not limited to, consequential or other damages, arising out of the use of, or reliance on, this Safety Data Sheet.