

			ECO #: 1002486			
. PRODUCT IDENTIFICATION						
Chemical Trade Name (as used on l	label):	Chemical Family/Classification:	Chemical Family/Classification:			
Jon-Spillable Lead Acid Battery with	n Canadian Requirements	Electric Storage Battery				
ynonyms:						
ndustrial Battery, Traction Battery, St	stationary Battery,	<u>Telephone:</u>				
Deep Cycle Battery		For information and emergencies, contact E	EnerSys'			
Manufacturer's Name/Address:		Environmental, Health & Safety Dept. at 61	Environmental, Health & Safety Dept. at 610-208-1996			
EnerSys	Canada Corporate Office					
P.O. Box 14145	3-61 Parr Boulevard	24-Hour Emergency Response Contact:				
2366 Bernville Road	Bolton, Ontario	CHEMTREC DOMESTIC: 800-424-9300	CHEMTREC DOMESTIC: 800-424-9300 CHEMTREC INT'L: 703-527-3877			
Reading, PA 19612-4145	L7E 4E3					
I GHS HAZARDS IDENTFICATI			-			
HEALT	ГН	ENVIRONMENTAL	PHYSICAL			
Acute Toxicity		Aquatic Chronic 1	Explosive Chemical, Division 1.3			
Oral/Dermal/Inhalation)	Category 4	Aquatic Acute 1				
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					
Foxicity (repeated exposure)						
GHS LABEL:						
HEALT	CH 🔨	ENVIRONMENTAL	PHYSICAL			
HEALT	rH	ENVIRONMENTAL	PHYSICAL			
HEALT		ENVIRONMENTAL	PHYSICAL			
		¥2	PHYSICAL			
Hazard Statements		Precautionary Statements	PHYSICAL			
Hazard Statements DANGER! Causes severe skin burns and serious of	eye damage.	Precautionary Statements Wash thoroughly after handling.				
Hazard Statements DANGER!	eye damage. hild if ingested or	Precautionary Statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product.				
Hazard Statements DANGER! Causes severe skin burns and serious of May damage fertility or the unborn ch	eye damage. nild if ingested or	Precautionary Statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face pro				
Hazard Statements DANGER! Causes severe skin burns and serious of May damage fertility or the unborn ch nhaled. May cause cancer if ingested or inhale	eye damage. nild if ingested or ed.	Precautionary Statements 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.	Detection.			
Hazard Statements DANGER! Causes severe skin burns and serious of May damage fertility or the unborn ch nhaled. May cause cancer if ingested or inhale Causes damage to central nervous syst	eye damage. nild if ingested or ed. stem, blood and	Precautionary Statements 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 b	Detection.			
Hazard Statements DANGER! Causes severe skin burns and serious of May damage fertility or the unborn ch nhaled. May cause cancer if ingested or inhale Causes damage to central nervous syst cidneys through prolonged or repeated	eye damage. nild if ingested or ed. stem, blood and d exposure.	Precautionary Statements 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 b Irritating to eyes, respiratory system, and skin.	Detection.			
Arrow of the second sec	eye damage. hild if ingested or ed. tem, blood and d exposure. luring charging.	Precautionary Statements 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 b Irritating to eyes, respiratory system, and skin. Obtain special instructions before use.	otection.			
Azard Statements DANGER! Causes severe skin burns and serious of May damage fertility or the unborn ch nhaled. May cause cancer if ingested or inhale Causes damage to central nervous syst cidneys through prolonged or repeated May form explosive air/gas mixture do Explosive, fire, blast, or projection has	eye damage. hild if ingested or ed. et. tem, blood and d exposure. luring charging. izard.	Precautionary Statements 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 b Irritating to eyes, respiratory system, and skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and under	otection.			
Average of the second s	eye damage. hild if ingested or ed. et. tem, blood and d exposure. luring charging. izard. n	Precautionary Statements 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 b 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	otection. urns. Avoid contact with internal acid.			
Aaver Statements DANGER! Causes severe skin burns and serious of May damage fertility or the unborn ch nhaled. May cause cancer if ingested or inhale Causes damage to central nervous syst cidneys through prolonged or repeated May form explosive air/gas mixture du Explosive, fire, blast, or projection haz May cause harm to breast-fed children Harmful if swallowed, inhaled, or con	eye damage. hild if ingested or ed. ed. etem, blood and d exposure. luring charging. izard. n ttact with skin	Precautionary Statements 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 b Irritating to eyes, respiratory system, and skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and under	otection. urns. Avoid contact with internal acid.			
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Components	CAS Number	Approximate % by Wt.	
Inorganic Lead Compound:			
Lead	7439-92-1	45-60	
Lead Dioxide	1309-60-0	15-25	
* 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		



SAFETY DATA SHEET

Power/Full Solutions				ECO #: 1002486
Polycarbonate, Hard Rubb	er. Polvethylene	9002-88-4		LCO #. 1002400
ther:	en, i orgenigiene	,002.001		
Silicon Dioxide (Gel batter	ries only)	7631-86-9	1-5	
Sheet Molding Compound	•			
(Glass reinforced polyester				
		primary components of ever	y battery manufacture	ed by EnerSys.
-		ttery type. Contact your En		
. FIRST AID MEASURES	* *		• •	
halation:				
Sulfuric Acid: Remove to	fresh air immediately. If	preathing is difficult, give or	kygen. Consult a phys	sician.
Lead: Remove from expos	sure, gargle, wash nose and	l lips; consult physician.		
gestion:				
Sulfuric Acid: Give large	quantities of water; do not	induce vomiting or aspiration	on into the lungs may	y occur and can cause permanent injury or death;
consult a physician.				
Lead: Consult physician in	mmediately.			
i <u>n:</u>				
Sulfuric Acid: Flush with	large amounts of water for	at least 15 minutes; remove	contaminated clothi	ing completely, including shoes.
If symptoms persist, seek r	nedical attention. Wash co	ontaminated clothing before	reuse. Discard contai	minated shoes.
Lead: Wash immediately	with soap and water.			
es:				
Sulfuric Acid and Lead: F	lush immediately with larg	ge amounts of water for a lea	st 15 minutes while	lifting lids.
Seek immediate medical at	ttention if eyes have been	exposed directly to acid.		
FIRE FIGHTING MEASURES				
sh Point: N/A		Flammable Limits: L		
tinguishing Media: CO2; foam; dry	chemical. Do not use cart	oon dioxide directly on cells	Avoid breathing vap	pors. Use appropriate media for surrounding fire.
ecial Fire Fighting Procedures:				
If batteries are on charge,	shut off power. Use posit	ive pressure, self-contained	breathing apparatus.	Water applied to electrolyte generates
heat and causes it to spatte	r. Wear acid-resistant clo	thing, gloves, face and eye p	rotection.	
But note that strings of ser	ies connected batteries ma	y still pose risk of electric sl	nock even when char	ging equipment is shut down.
usual Fire and Explosion Hazards:	•			
Highly flammable hydroge	n gas is generated during	charging and operation of ba	tteries. To avoid risl	k of fire or explosion, keep sparks or other
			taneously contact neg	gative and positive terminals of cells and
batteries. Follow manufac	turer's instructions for inst	allation and service.		
. ACCIDENTAL RELEASE MEA	SURES			
ill or Leak Procedures:				
-	_	-		ombustible materials. If possible, carefully
1 1				ng, boots, gloves, and face shield. Do not
allow discharge of unneutr	alized acid to sewer. Acid	must be managed in accord	ance with local, state	, and federal requirements.
Consult state environmenta	al agency and/or federal E	PA.		
I. HANDLING AND STORAGE				
ndling:				
less involved in recycling operations,	do not breach the casing	or empty the contents of the	battery. Handle caref	fully and avoid tipping,
ich may allow electrolyte leakage. Th	ere may be increasing risk	of electric shock from strin	gs of connected batte	eries.
ep containers tightly closed when not	in use. If battery case is l	proken, avoid contact with in	nternal components.	
ep vent caps on and cover terminals t	o prevent short circuits. F	lace cardboard between laye	ers of stacked automo	ptive batteries to avoid damage and short circuits.
ep away from combustible materials,	organic chemicals, reduci	ng substances, metals, stron	g oxidizers and water	r. Use banding or stretch wrap to secure items for
pping.				
orage:				
bre batteries in cool, dry, well-ventilat	ed areas with impervious	surfaces and adequate conta	inment in the event o	of spills. Batteries should
o be stored under roof for protection a				*
				nd heat. Keep away from metallic objects could
dge the terminals on a battery and cre			, ., ., ., ., .,	I
narging:	Berous short ene			
<u></u>	c 1 · · · ·		. 11	

There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to chargers whenever not in use and before detachment of any circuit connections. Batteries being charged will generate and release flammable hydrogen gas.

Charging space should be ventilated. Keep battery vent caps in position. Prohibit smoking and avoid creation of flames and sparks nearby.

Wear face and eye protection when near batteries being charged.



Supersedes: AF ECO #: 1002486

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

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
Styrene Acrylonitrile	N.E	N.E	N.E	N.E	N.E	N.E
Acrylonitrile Butadiene						
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:

(b) As inhalable aerosol

(c) Thoracic fraction

(e) Based on OEL;s Of Austria, Belgium, Denmark, France, Netherlands, Switzerland, & U.K.

Engineering Controls (Ventilation):

Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant.

Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective clothing, eye and face protection when filling, charging or handling batteries. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Charge the batteries in areas with adequate ventilation. General dilution ventilation is acceptable.

Respiratory Protection (NIOSH/MSHA approved):

None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed the PEL, use NIOSH or MSHA-approved respiratory protection.

Skin Protection:

If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing and boots.

Eye Protection:

If battery case is damaged, use chemical goggles or face shield.

Other Protection:

In areas where sulfuric acid is handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided,

with unlimited water supply. Acid-resistant apron. Under severe exposure emergency conditions, wear acid-resistant clothing and boots.

Face shield recommended when adding water or electrolyte to batteries, wash hands after handling.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Properties Listed Below are for Electrolyte:				
Boiling Point:	203 - 240° F	Specific Gravity (H2O = 1):	1.215 to 1.350	
Melting Point:	N/A	Vapor Pressure (mm Hg):	10	
Solubility in Water:	100%	Vapor Density (AIR = 1):	Greater than 1	
Evaporation Rate: (Butyl Acetate = 1)	Less than 1	% Volatile by Weight:	N/A	
pH:	~1 to 2	Flash Point:	Below room temperature (as hydrogen gas)	
LEL (Lower Explosive Limit)	4.1% (Hydrogen)	UEL (Upper Explosive Limit)	74.2% (Hydrogen)	
Appearance and Odor:	Manufactured article; no apparent odor. Electrolyte is a clear liquid with a sharp, penetrating, pungent odor.			



Power/Full Solutions	ECO #:	1002486
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 ager		
metals, sulfur trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable	e	
hydrogen gas.		
Lead Compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen	i	
and reducing agents.		
Arsenic compounds: strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic arsenic to form the highly toxic gas-arsine		
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 nascent	ıt	
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, va	por	
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 syst	emic	
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:		
Sulfuric Acid: 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		
females. Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report abn	ormal	
conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system	damage,	
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" as	a	
Group 1 carcinogen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid or sulfuric		
acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of	the	
product, such as overcharging, may result in the generation of sulfuric acid mist.		
	0.1200	
Lead Compounds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 191		
Lead Compounds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 191 Appendix F, this is approximately equivalent to GHS Category 1B. <u>Proof of carcinogenicity in humans is lacking at present.</u>	this is	
Lead Compounds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 191 Appendix F, this is approximately equivalent to GHS Category 1B. <u>Proof of carcinogenicity in humans is lacking at present.</u> <u>Arsenic</u> : Arsenic is listed by IARC as a Group 1 - carcinogenic to humans. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F,	this is	
Lead Compounds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 191 Appendix F, this is approximately equivalent to GHS Category 1B. <u>Proof of carcinogenicity in humans is lacking at present.</u> <u>Arsenic</u> : Arsenic is listed by IARC as a Group 1 - carcinogenic to humans. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F, approximately equivalent to GHS Category 1A.	this is	
Lead Compounds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 191 Appendix F, this is approximately equivalent to GHS Category 1B. <u>Proof of carcinogenicity in humans is lacking at present.</u> <u>Arsenic</u> : Arsenic is listed by IARC as a Group 1 - carcinogenic to humans. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F, approximately equivalent to GHS Category 1A. <u>Medical Conditions Generally Aggravated by Exposure:</u>		
Lead Compounds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 191 Appendix F, this is approximately equivalent to GHS Category 1B. <u>Proof of carcinogenicity in humans is lacking at present.</u> <u>Arsenic</u> : Arsenic is listed by IARC as a Group 1 - carcinogenic to humans. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F, approximately equivalent to GHS Category 1A.		



Acute Toxicity: Inhalation LD50:

Electrolyte: LC50 rat: 375 mg/m3; LC50: guinea pig: 510 mg/m3

Elemental Lead: 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, especially soluble forms.

III. ECOLOGICAL INFORMATION				
Invironmental Fate:	_			
Lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of metallic lead between ecological compartments is slow.				
Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain.				
Most studies include lead compounds and not elemental lead.				
Cnvironmental 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 on lead bullion				
Arsenic: 24 hr LC50, freshwater fish (Carrassisus auratus) >5000 g/L.				
dditional Information:				
· No known effects on stratospheric ozone depletion.				
Volatile organic compounds: 0% (by Volume)				
· Water Endangering Class (WGK): NA				
III. DISPOSAL CONSIDERATIONS (UNITED STATES)				
pent batteries: Send to secondary lead smelter for recycling. Spent lead-acid batteries are not regulated as hazardous waste when the requirements of				
40 CFR Section 266.80 are met. This should be managed in accordance with approved local, state and federal requirements. Consult state environmental				
agency and/or federal EPA.				
llectrolyte:				
Place neutralized slurry into sealed containers and handle as applicable with state and federal regulations. Large water-diluted spills, after				
neutralization and testing, should be managed in accordance with approved local, state and federal requirements. Consult state environmental				
gency and/or federal EPA.				
ollowing local, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.				



XIV. TRANSPORT INFORMATION

С

CLASSIFI	ICATION:				
	UN Number: UN2800				
	Shipping Name: BATTERIES, WET, NON-SPIL	LABLE			
	Primary Class: 8				
U.S. DOT:	Packing Group:				
<u>U.S. DUT.</u>	Excepted from the hazardous materials regulations (HMR) because the batteries m	eet the requirements of 49 CFR 173 159(f) and 49	CFR 173 159a	
	of the U.S. Department of Transportation/s HMR. E		•		
	Battery terminals must be protected against short cir		be marked NONSFILLABLE of NONSFILLAR	LE DATTENT	
IATA Dan	gerous Goods Regulations DGR:	cuits.			
In the Dun		use the batteries meet the requ	irements of Packing Instruction 872 and Special P	ovisions A67 of	
1	Excepted from the dangerous goods regulations because the batteries meet the requirements of Packing Instruction 872 and Special Provisions A67 of the International Air Transportation Association (IATA) Dangerous goods Regulations and International Civil Aviation Organization (ICAO) Technical				
	Instructions. Battery Terminals must be protected a		Ũ		
	The words " NOT RESTRICTED", SPECIAL PROV	VISION A67" must be provide	l on an airway bill when air waybill is issued.		
IMDG:					
	Excepted from the dangerous goods regulations for t			238 of the	
	International Maritime Dangerous Goods(IMDG CO	ODE). Battery terminals must	be protected against short circuits.		
<u>TDG:</u>					
	Excepted from the hazardous materials regulations (HMR) because the batteries m	eet the requirements of special provision 39 (Schedu	ile2 of SOR/2014-306)	
	Mark as NON-SPILLABLE BATTERIES.	•.			
	Battery terminals must be protected against short cir	cuits.			
XV RECI	ULATORY INFORMATION				
UNITED S					
	A Title III:				
	2 EPCRA Extremely Hazardous Substances (EHS):				
	Sulfuric acid is a listed "Extremely Hazardous Subst	ance" under EPCRA, with a T	reshold Planning Quantity (TPQ) of 1,000 lbs.		
	EPCRA Section 302 notification is required if 1000	lbs or more of sulfuric acid is	present at one site (40 CFR 370.10). For more infor	mation consult	
	40 CFR Part 355. The quantity of sulfuric acid will w	ary by battery type. Contact ye	our EnerSys representative for additional information)n.	
Section 304	4 CERCLA Hazardous Substances:				
	Reportable Quantity (RQ) for spilled 100% sulfuric	acid under CERCLA (Superfu	ad) and		
	EPCRA (Emergency Planning and Community Righ	t to Know Act) is 1,000 lbs. St	ate and local reportable quantities for spilled sulfur	ic acid may vary.	
Section 31	1/312 Hazard Categorization:				
	EPCRA Section 312 Tier Two reporting is required			nore and/or if lead is	
0 1 212	present in quantities of 10,000 lbs or more. For more	e information consult 40 CFR 3	70.10 and 40 CFR 370.40.		
Section 31:	<u>3 EPCRA Toxic Substances:</u>	1		a <i>d</i> , 6a	
	40 CFR section 372.38 (b) states: If a toxic chemica	•			
	toxic chemical present in such article when determin determining the amount of release to be reported und	• • • • • • • • • • • • • • • • • • • •			
	or the person produced the article. However, this exe			another person	
	of the person produced the article. However, this ex	comption applies only to the qua	nuty of the toxic chemical present in the article.		
Supplier N	Jotification:				
	This product contains toxic chemicals, which may b	e reportable under EPCRA Sec	tion 313 Toxic Chemical Release Inventory (Form	R) requirements.	
	If you are a manufacturing facility under SIC codes	•	•	· •	
	Toxic Chemical	CAS Number	Approximate % by Wt.		
	Lead	7439-92-1	60		
	Electrolyte				
	(Sulfuric Acid (H2SO4/H2O)) 7664-93-9	10 - 30		
	* Antimony	7440-36-0	2		
	* Arsenic				
	* Arsenic Tin	7440-38-2 7440-31-5	0.2 0.2		
	See 40 CRG Part 370 for more details.	/440-31-3	0.2		
	See 40 CRO 1 att 570 for more details.				
	If you distribute this product to other manufacturers	in SIC Codes 20 through 30 f	is information must be provided with the first shir	ment	
1	of each calendar year.		ine internation must be provided with the first sinp		
	or each calchdar your.				

The Section 313 supplier notification requirement does not apply to batteries, which are "consumer products".

* Not present in all battery types. Contact your EnerSys representative for additional information.



TSCA:	
	TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.
	TSCA Section 12b (40 CFR Part 707.60(b)) No notice of export will be required for articles, except PCB articles, unless the Agency so requires in the context of individual section 5, 6, or 7 actions.
	TSCA Section 13 (40 CFR Part 707.20): No import certification required (EPA 305-B-99-001, June 1999, Introduction to the Chemical Import Requirements of the Toxic Substances Control Act, Section IV.A).
<u>RCRA:</u>	Spent Lead Acid Batteries are subject to streamlined handling requirements when managed in compliance with 40 CFR section 266.80 or 40 CFR part 273. Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).
CAA:	EnerSys supports preventative actions concerning ozone depletion in the atmosphere due to emissions of CFC's and other ozone depleting chemicals (ODC's), defined by the USEPA as Class I substances. Pursuant to Section 611of the Clean Air Act Amendments (CAAA) of 1990, finalized on January 19, 1993, EnerSys established a policy to eliminate the use of Class I ODC's prior to the May 15, 1993 deadline.
STATE RE	ULATIONS (US):
	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.
INTERNA '	IONAL REGULATIONS:
	Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2).
	Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.
	Article 33 (1) of the REACH regulation (Reg. EC 1907/2006), which entered into force on 1 st of June 2007 in the European Union, requires that manufacturers communicate the presence of Substances of Very High Concern (SVHC) in articles (lead batteries) in concentration greater than 0.1% by weight.
	Effective the 27 th of June 2018, the European Chemical Agency (ECHA) updated the Candidate List with the inclusion of Lead Metal (CAS No.: 7439-92-1). This inclusion of Lead as an SVHC applies to all of EnerSys Lead based battery products regardless of the design (Flooded, Gel, AGM, etc).
XVI. OTH	R INFORMATION
Revised:	1/10/2023
NFPA Haz	d Rating for Sulfuric Acid:
<u> </u>	Flammability (Red) = 0 Reactivity (Yellow) = 2
	Health (Blue) = 3 Sulfuric acid is water-reactive if concentrated.
DISCLAIN	
	ata Sheet is created by the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent allowed by law,
	urer 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.