

I DROFT						
	CT IDENTIFICATION					
	Trade Name (as used on label):		Chemical Family/Classi	fication:		
Nonspillab	e Lead-Acid Battery		Electric Storage Battery			
Manufactu	rer's Name/Address:		Telephone:			
EnerSys			For information and emer	gencies, contact E	nerSys'	
P.O. Box 14	4145		Environmental, Health &	Safety Dept. at 61	0-208-1996	
2366 Berny	ille Road		24-Hour Emergency Re	sponse Contact:		
Reading, P	A 19612-4145		CHEMTREC DOMESTI	C: 800-424-9300	CHEMTREC INT'L: 703	-527-3877
	RDOUS INGREDIENTS/IDENTIFY INFORMA	TION				
					Air Exposure Limits (u	g/m <sup>3</sup> )
Componen	ts	CAS Number	Approximate % by Wt. Or Vol.	OSHA	ACGIH	NIOSH
Inorganic	Lead Compound:					
	Lead	7439-92-1	45 - 60	50	150	100
	* Lead Dioxide	1309-60-0	15 - 25	50	150	100
	* Antimony	7440-36-0	2	500	500	
	* Arsenic	7440-38-2	0.2	10	200	
	* Calcium	7440-70-2	0.2			
	* Tin	7440-70-2	0.2	2000	2000	
Flootl- (		_				
	(Sulfuric Acid)	7664-93-9	10-30	1000	1000	1000
Case Mate			5-10	N/A	N/A	N/A
	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					
	r offetteonate, fille fille offett, r offettigtene					
Other						
Other:	Silicon Dioxida (Cal battarias only)	7631.86.0	20.40	N/A	N/A	N/A
Other:	Silicon Dioxide (Gel batteries only)	7631-86-9	20-40	N/A	N/A	N/A
Other:	Sheet Molding Compound	7631-86-9 	20-40	N/A N/A	N/A N/A	N/A N/A
Other:	Sheet Molding Compound (Glass reinforced polyester)			N/A	N/A	
Other:	Sheet Molding Compound (Glass reinforced polyester) Inorganic lead and electrolyte (sulfuric acid) are t	 he primary componer	Its of every battery manufa	N/A ctured by EnerSys	N/A	
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III. PHYS Electrolyte IV. FIRE Flash Poin Extinguish Special Fir Unusual Fi Unusual Fi V. REAC Stability: Conditions	Sheet Molding Compound (Glass reinforced polyester) Inorganic lead and electrolyte (sulfuric acid) are t Other ingredients may be present dependent upon ICAL DATA : Boiling Point: Melting Point: Solubility in Water: Evaporation Rate: (Butyl Acetate = 1) Appearance and Odor: AND EXPLOSION HAZARD DATA t: N/A ing Media: CO2; foam; dry chemical e Fighting Procedures: If batteries are on charge, shut off power. Use po heat and causes it to spatter. Wear acid-resistant of re and Explosion Hazards: Highly flammable hydrogen gas is generated duri sources of ignition away from batteries. Do not a batteries. Follow manufacturer's instructions for FIVITY DATA Stable To Avoid: Prolonged overcharge; sources of ignitio bility: (Materials to avoid)	he primary componer battery type. Contact 203 - 240° F N/A 100% Less than 1 Manufactured artice Flammable Limit still the pressure, self-co- clothing. ng charging and oper llow metallic materia installation and service ion ganic materials may c	ts of every battery manufa t your EnerSys representat Specific Gravity (H2O = Vapor Pressure (mm Ha Vapor Density (AIR = 1 % Volatile by Weight: le; no apparent odor. Elec s: LEL = 4.1% (Hydrogen sontained breathing apparat ation of batteries. To avoid ls to simultaneously contac e.	N/A ctured by EnerSys ive for additional i = 1): g): trolyte is a clear li Gas) tus. Water applied d risk of fire or exp t negative and pos lso reacts violently	N/A         nformation.         1.215 to 1.350         10         Greater than 1         N/A         quid with a sharp, penetration         UEL = 74.2%         I to electrolyte generates         plosion, keep sparks or other         itive terminals of cells and	N/A
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## MATERIAL SAFETY DATA SHEET

V PEAC	ECU#: 1000860
	CTIVITY DATA (Cont.) Is Decomposition Products:
<u>11a2a1 uuu</u>	Sulfuric Acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen.
	Lead Compounds: High temperatures likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nascent
	hydrogen may generate highly toxic arsine gas.
VI. HEA	LTH HAZARD DATA
Routes of	
	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, vapor
	or fume.
Inhalation	n:
	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	
1	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 systemic toxicity and must be
	treated by a physician.
Skin Cont	
1	Sulfuric Acid: Severe irritation, burns and ulceration.
	Lead Compounds: Not absorbed through the skin.
Eye Conta	
	Sulfuric Acid: Severe irritation, burns, cornea damage, and blindness.
T 00 / 0	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
T.C	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
	females.
Carcinog	
Carcinog	Sulfuric Acid: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as a
	Category I 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.
	Lead Compounds: Lead is listed as a 2B carcinogen, likely in animals at extreme doses. Proof of carcinogenicity in humans is lacking at present.
	<u>Arsenic</u> : Listed by National Toxicology Program (NTP), International Agency for Research on Cancer (IARC), OSHA and NIOSH as a
	carcinogen only after prolonged exposure at high levels.
Modical (	Conditions Generally Aggravated by Exposure:
Meuicar	Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggravate
	diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.
Inholotics	EMERGENCY AND FIRST AID PROCEDURES:
<u>Inhalatio</u>	<u>a:</u> Sulfuric Acid: Remove to fresh air immediately. If breathing is difficult, give oxygen.
	Lead: Remove from exposure, gargle, wash nose and lips; consult physician.
Ingestion	
ingestion	Sulfuric Acid: Give large quantities of water; do not induce vomiting; consult physician.
	Lead: Consult physician immediately.
Skin:	Loui. Conour payorea minoratory.
JKIII.	Sulfuric Acid: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes.
	Lead: Wash immediately with soap and water.
Evee	
Eyes:	Sulfuric Acid and Lead: Flush immediately with large amounts of water for a least 15 minutes; consult physician.
Propositio	
1000310	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.



VII. I KEU	AUTIONS FOR SAFE HANDLING AND USE
Spill or Lea	k Procedures:
	Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully
	neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not
	allow discharge of unneutralized acid to sewer.
Waste Disp	osal Methods:
	Spent batteries: Send to secondary lead smelter for recycling.
	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
	agency and/or federal EPA.
Handling a	nd Storage:
	Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills. Batteries should
	also be stored under roof for protection against adverse weather conditions. Separate from incompatible materials. Store and handle only
	in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks and heat.
	Precautionary Labeling:
	POISON - CAUSES SEVERE BURNS DANGER - CONTAINS SULFURIC ACID
	TROL MEASURES
Engineerin	g Controls:
	Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant.
Work Prac	
	Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective
_	clothing when filling or handling batteries.
<b>Respirator</b>	<u>/ Protection:</u>
	None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed the PEL, use NIOSH or MSHA-approved
	respiratory protection.
<b>Protective</b>	Gloves: Rubber or plastic acid-resistant gloves with elbow-length gauntlet.
Eye Protec	
Eye Protec	Chemical goggles or face shield.
Other Prot	
Ouler 1100	Acid-resistant apron. Under severe exposure emergency conditions, wear acid-resistant clothing and boots.
Emergency	
Entergeney	In areas where sulfuric acid is handled in concentrations greater then 1%, emergency eyewash stations and showers should be provided,
IX. OTHE	with unlimited water supply.
	with unlimited water supply. REGULATORY INFORMATION
	with unlimited water supply.
	with unlimited water supply. R REGULATORY INFORMATION ard Rating for Sulfuric Acid:
	with unlimited water supply.         R REGULATORY INFORMATION         ard Rating for Sulfuric Acid:         Flammability (Red) = 0       Reactivity (Yellow) = 2
<u>NFPA Haz</u>	with unlimited water supply.         R REGULATORY INFORMATION         ard Rating for Sulfuric Acid:         Flammability (Red) = 0       Reactivity (Yellow) = 2
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ity (RQ) for spilled 100% su						
	ulfuric acid under CERO	T A (Superfund) and EPCRA (Emergency Planning (	Community			
(a) Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning Community Right to Know Act) is <u>1.000 lbs</u> . State and local reportable quantities for spilled sulfuric acid may vary.						
(b) Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs.						
EPCRA Section 302 notification is required if 1,000 lbs. or more of sulfuric acid is present at one site. The quantity of sulfuric a l vary by battery type. Contact your EnerSys representative for additional information.						
tities of 10,000 lbs. or more.						
(e) <u>Supplier Notification</u> : This product contains toxic chemicals, which may be reportable under EPCRA Section 313 Toxic Chemical						
Release Inventory (Form R) requirements.						
uring facility under SIC cod	es 20 through 39, the fo	llowing information is provided to enable you to com	<u>plet</u> e			
* Antimony	7440-36-0	2				
* Arsenic	7440-38-2	0.2				
If you distribute this product to other manufacturers in SIC Codes 20 through 39, this information must be provided with the first shipment of each calendar year.						
lier notification requiremen	t does not apply to batte	ries, which are "consumer products".				
attery types. Contact your I	EnerSys representative f	or additional information.				
*						
. 2 0	7664-93-9	Listed				
ound:	5420.02.1					
	7439-92-1	Listed				
Lead (Pb)		T late J				
Lead Oxide (PbO)	1317-36-8	Listed				
Lead Oxide (PbO) Lead Sulfate (PbSO <sub>4</sub> )	7446-14-2	Listed				
Lead Oxide (PbO) Lead Sulfate (PbSO <sub>4</sub> ) Antimony (Sb)	7446-14-2 7440-36-0	Listed Listed				
Lead Oxide (PbO) Lead Sulfate (PbSO <sub>4</sub> ) Antimony (Sb) Arsenic (As)	7446-14-2 7440-36-0 7440-38-2	Listed Listed Listed				
Lead Oxide (PbO) Lead Sulfate (PbSO <sub>4</sub> ) Antimony (Sb)	7446-14-2 7440-36-0	Listed Listed				
	<ul> <li>B12 Tier 2 reporting is requisif 10,000 lbs. or more.</li> <li><u>ion</u>: This product contains orm R) requirements.</li> <li><u>uring facility under SIC cod</u></li> <li><u>Toxic Chemical</u></li> <li>Lead</li> <li>Sulfuric Acid</li> <li>* Antimony</li> <li>* Arsenic</li> <li>product to other manufacture</li> <li>lier notification requirement</li> <li>attery types. Contact your H</li> <li><u>s' batteries are listed in the 7</u></li> <li><u>Components</u></li> <li>Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>)</li> </ul>	B12 Tier 2 reporting is required for batteries if sulfur $g12$ Tier 2 reporting is required for batteries if sulfur $g12$ Tier 2 reporting is required for batteries if sulfur $g12$ This product contains toxic chemicals, which is $g12$ This product contains toxic chemicals, which is $g12$ Tier 2 reporting is required for batteries if sulfur $g12$ This product contains toxic chemicals, which is $g12$ Tier 2 reported to the sum of th	B12 Tier 2 reporting is required for batteries if sulfuric acid is present in quantities of 500 lbs. or more and f 10,000 lbs. or more.         ion: This product contains toxic chemicals, which may be reportable under EPCRA Section 313 Toxic C orm R) requirements.         uring facility under SIC codes 20 through 39, the following information is provided to enable you to com <u>Toxic Chemical</u> <u>CAS Number</u> <u>Approximate % by Wt.</u> Lead       7439-92-1         60         Sulfuric Acid       7664-93-9         * Antimony       7440-36-0         * Arsenic       7440-38-2         orroduct to other manufacturers in SIC Codes 20 through 39, this information must be provided with the filler notification requirement does not apply to batteries, which are "consumer products".         attery types. Contact your EnerSys representative for additional information.         s' batteries are listed in the TSCA Registry as follows: <u>Components</u> <u>CAS Number</u> <u>Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>)       7664-93-9   </u>			