

I. PRODUCT IDENTIFICATION Chemical Trade Name (as used on la					
	abel):	Chemical Family/Classification:	Chemical Family/Classification:		
Lead-Acid Battery, Wet		Electric Storage Battery	Electric Storage Battery		
Synonyms:					
Industrial Battery, Traction Battery, St	tationary Battery,	Telephone:			
Deep Cycle Battery		For information and emergencies, contact H	awker's		
Manufacturer's Name/Address:		Environmental, Health & Safety Dept. at 423-238-5700			
Hawker Powersource	Canada Corporate Office				
P.O. Box 808	3-61 Parr Boulevard	24-Hour Emergency Response Contact:			
9404 Ooltewah Indsutrial Drive	Bolton, Ontario	CHEMTREC DOMESTIC: 800-424-9300 CHEMTREC INT'L: 703-527-3877			
Ooltewah, TN 37363	L7E 4E3				
II GHS HAZARDS IDENTIFICAT	ION				
HEALT	Н	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 compound	Category 1B				
Carcinogenicity (arsenic)	Category 1A				
Carcinogenicity (acid mist)	Category 1A				
Specific Target Organ	Category 2				
Foxicity (repeated exposure)	2 9				
GHS LABEL:					
HEALTI	н	ENVIRONMENTAL	PHYSICAL		
	H	ENVIRONMENTAL	PHYSICAL		
HEALT	H	ENVIRONMENTAL	PHYSICAL		
HEALTI HEALTI	H		PHYSICAL		
HEALTI HEALTI Hazard Statements DANGER!		Precautionary Statements Wash thoroughly after handling.	PHYSICAL		
HEALTI HEALTI Hazard Statements DANGER! Causes severe skin burns and serious of	eye damage.	Precautionary Statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product.			
HEALTI HEALTI Hazard Statements DANGER! Causes severe skin burns and serious of May damage fertility or the unborn ch	eye damage.	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			
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HEALTI HEALTI HEALTI Hazard Statements DANGER! Causes severe skin burns and serious of May damage fertility or the unborn ch inhaled. May cause cancer if ingested or inhale Causes damage to central nervous syst	eye damage. ild if ingested or ed. tem, 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.	tection.		
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HEALTI HEALTI HEALTI Hazard Statements DANGER! Causes severe skin burns and serious of May damage fertility or the unborn chi inhaled. May cause cancer if ingested or inhale Causes damage to central nervous syst kidneys through prolonged or repeated May form explosive air/gas mixture du Explosive, fire, blast, or projection haz May cause harm to breast-fed children	eye damage. wild if ingested or ed. tem, blood and d exposure. uring charging. zard. h	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 bu Irritating to eyes, respiratory system, and skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and unde Avoid contact during pregnancy/while nursing	tection. Irns. Avoid contact with internal acid.		
HEALTI HEALTI HEALTI Hazard Statements DANGER! Causes severe skin burns and serious of May damage fertility or the unborn ch inhaled. May cause cancer if ingested or inhale Causes damage to central nervous syst kidneys 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 cont	eye damage. ild if ingested or ed. tem, blood and d exposure. uring charging. zard. 1 tact 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 bu Irritating to eyes, respiratory system, and skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and unde	tection. Irns. Avoid contact with internal acid.		
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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	



SAFETY DATA SHEET

				ECO #:	1002580
Other:					
	Silicon Dioxide (Gel batteries only)	7631-86-9	1-5		
	Sheet Molding Compound				
	(Glass reinforced polyester)				
	Inorganic lead and electrolyte (sulfuric acid) are the pr	imary components of ev	very battery manufacture	ed by Hawker.	
	Other ingredients may be present dependent upon batt				
IV. FIRS	T AID MEASURES	<u> </u>			
Inhalation					
	Sulfuric Acid: Remove to fresh air immediately. If br	eathing is difficult, give	oxygen. Consult a phys	sician	
	Lead: Remove from exposure, gargle, wash nose and	lips; consult physician.			
Ingestion:	* * *				
	Sulfuric Acid: Give large quantities of water; do not in	nduce vomiting or aspir	ation into the lungs may	occur and can cause permanent injury or death;	
	consult a physician				
	Lead: Consult physician immediately.				
Skin:					
<u>omi</u>	Sulfuric Acid: Flush with large amounts of water for a	t least 15 minutes: remo	ove contaminated clothi	ng completely, including shoes.	
	If symptoms persist, seek medical attention. Wash con				
	Lead: Wash immediately with soap and water.	tanimated clothing bero	re reuse. Diseard contai	inflated shoes	
Eyes:	<u>2000</u> wash miniculatory with soup and water.				
Lycs.	Sulfuric Acid and Lead: Flush immediately with large	amounts of water for a	least 15 minutes while	lifting lids	
	Seek immediate medical attention if eyes have been ex		least 15 minutes while	inting has	
V FIDE		posed difectly to acid.			
V. FIRE I Flash Poir	FIGHTING MEASURES	Flammable Limits:	LEL = 4.1% (Hydrogen	u Gas) UEL = 74.2%	
	hing Media: CO2; foam; dry chemical. Do not use carbo				
	ire Fighting Procedures:	in alloxide directly on ee	ns. Avoid breathing vaj	ors. Ose appropriate media for surrounding me.	
Special FI				Water emplied to electrolyte comparison	
	If batteries are on charge, shut off power. Use positiv	<u>^</u>	• • •	water applied to electrolyte generates	
	heat and causes it to spatter. Wear acid-resistant cloth		*		
	But note that strings of series connected batteries may	still pose risk of electric	c shock even when char	ging equipment is shut down.	
Unusual F	Fire and Explosion Hazards:				
	Highly flammable hydrogen gas is generated during ch				
	sources of ignition away from batteries. Do not allow		nultaneously contact ne	gative and positive terminals of cells and	
	batteries. Follow manufacturer's instructions for instal	lation and service.			
	IDENTAL RELEASE MEASURES				
Spill or Le	eak Procedures:				
	Stop flow of material, contain/absorb small spills with	•		· · ·	
	neutralize spilled electrolyte with soda ash, sodium bio				
	allow discharge of unneutralized acid to sewer. Acid n		ordance with local, state	, and federal requirements.	
	Consult state environmental agency and/or federal EPA	A			
	NDLING AND STORAGE				
Handling:					
	volved in recycling operations, do not breach the casing or		•		
-	y allow electrolyte leakage. There may be increasing risk of		U	ries.	
•	ainers tightly closed when not in use. If battery case is br		*		
Keep vent	caps on and cover terminals to prevent short circuits. Pla	ace cardboard between l	ayers of stacked automo	tive batteries to avoid damage and short circuits.	
Keep away	y from combustible materials, organic chemicals, reducing	g substances, metals, str	ong oxidizers and water	. Use banding or stretch wrap to secure items for	
shipping.					
Storage:					
Store batte	eries in cool, dry, well-ventilated areas with impervious su	urfaces and adequate con	ntainment in the event of	f spills. Batteries should	
also be sto	red under roof for protection against adverse weather con	ditions. Separate from	incompatible materials.	Store and handle only	
in areas wi	ith adequate water supply and spill control. Avoid damag	e to containers. Keep a	way from fire, sparks a	nd heat. Keep away from metallic objects could	
	terminals on a battery and create a dangerous short-circuit		- 1		
Charging:	· · · · · · · · · · · · · · · · · · ·				
	 possible risk of electric shock from charging equipment a 	nd from strings of series	s connected batteries w	hether or not being charged. Shut-off power to	
	whenever not in use and before detachment of any circuit of	-			
-	space should be ventilated. Keep battery vent caps in posi				
Charging S	space should be ventilated. Keep battery vent caps in post	tion. r tomoit smokillg a	and avoid creation of the	nies and sparks nearby.	

Wear face and eye protection when near batteries being charged.



VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

VIII. EXPOSURE CONTROLS/PE	RSONAL 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 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 Polyvinylchloride	N.E N.E	N.E N.E	N.E N.E	N.E N.E	N.E 1	N.E N.E
	IN.E	1N.E	IN.E	IN.E	1	IN.E
Polycarbonate, Hard	NE	NE	NE	NE	NE	NE
Rubber, Polyethylene	N.E	N.E	N.E	N.E	N.E	N.E
Silicon Dioxide	NE	NE	NE	NE	NE	NE
(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, Belgiu	m, Denmark, France, Netherlan	nds, Switzerland, & U	.K.			
Engineering Controls (Ventilation):						
Store and handle in well-	ventilated area. If mechanical	ventilation is used, co	mponents must be acid-	-resistant.		
Handle batteries cautious	ly to avoid spills. Make certain	n vent caps are on sec	urely. Avoid contact wi	ith internal component	s. Wear protective	
clothing, eye and face pro	otection when filling, charging	or handling batteries.	Do not allow metallic m	naterials to simultaneou	usly contact both the	
positive and negative term	ninals of the batteries. Charge	the batteries in areas v	vith adequate ventilation	n. General dilution ver	itilation is acceptable.	
Respiratory Protection (NIOSH/MS	HA approved):					
None required under norr	nal conditions. When concentration	rations of sulfuric acid	l mist are known to exce	eed the PEL, use NIOS	H or MSHA-approved	
respiratory protection.						
Skin Protection:						
If battery case is damaged	d, use rubber or plastic acid-res	istant gloves with elb	ow-length gauntlet, acid	l-resistant apron, cloth	ing and boots.	
Eye Protection:						
If battery case is damaged	l, use chemical goggles or face	shield.				
Other Protection:						
In areas where sulfuric ac	eid is handled in concentrations	greater than 1%, eme	ergency eyewash station	s and showers should	be provided,	
with unlimited water supp	ply. Acid-resistant apron. Und	er severe exposure en	ergency conditions, we	ar acid-resistant clothi	ng and boots.	
Face shield recommended	d when adding water or electrol	lyte to batteries, wash	hands after handling.			
IX. PHYSICAL AND CHEMICAL I	PROPERTIES					
Properties Listed Below are for Elec	trolyte:					
Boiling Point:		203 - 240° F	Specific Gravity (H2	O = 1):	1.215 to 1.350	
Melting Point:		N/A	Vapor Pressure (mm	n Hg):	10	
Solubility in Water:		100%	Vapor Density (AIR	= 1):	Greater than 1	
Evaporation Rate: (But	tyl Acetate = 1)	Less than 1	% Volatile by Weigh	nt:	N/A	
	pH:	~1 to 2	Flash Point:		Below room temperature	(as hydrogen gas)
LEL (Lower Explosive l		4.1% (Hydrogen)	UEL (Upper Explosi	ve Limit)	74.2% (Hydrogen)	, , , , , , , , , , , , , , , , , , ,
(F_001101	1			.,		
Appearance and Odor:		Manufactured article	**			
		Electrolyte is a clear	liquid with a sharp, pen	etrating, pungent odor		



	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 ager	nts,	
metals, sulfur trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammab	le	
hydrogen gas.		
Lead Compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen	1	
and reducing agents.		
Arsenic compounds: strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic arsenic to form the highly toxic gas-arsine	2.	
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 nasce	nt	
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.		
Eve 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 abr		
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	sa	
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	f the	
product, such as overcharging, may result in the generation of sulfuric acid mist.		
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	0.1200	
Appendix F, this is approximately equivalent to GHS Category 1B. Proof of carcinogenicity in humans is lacking at present.		
Arsenic: 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	
approximately equivalent to GHS Category 1A.		
Medical Conditions Generally Aggravated by Exposure:		
Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggra	vate	
diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.		



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) <u>Elemental Arsenic:</u> 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

	Risk phrase 61: N	Aay cause harm to the unborn child, applies to lead compounds, especia	ally soluble forms.
XII. ECO	LOGICAL INFOR	MATION	
Environm	ental Fate:		
	Lead is very pers	stent in soil and sediments. No data on environmental degradation. Me	obility of metallic lead between ecological compartments is slow.
		of lead occurs in aquatic and terrestrial animals and plants but little bid	oaccumulation occurs through the food chain.
	Most studies incl	ude lead compounds and not elemental lead.	
Environm	ental Toxicity: Aqu	atic 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.	
Additiona	l Information:		
	 No known effect 	ts on stratospheric ozone depletion.	
	 Volatile organic 	compounds: 0% (by Volume)	
	 Water Endanger 	ing Class (WGK): NA	
		RATIONS (UNITED STATES)	
		ndary lead smelter for recycling. Spent lead-acid batteries are not regul	
40 CFR Se	ection 266.80 are me	t. This should be managed in accordance with approved local, state and	d federal requirements. Consult state environmental
agency and	d/or federal EPA.		
Electrolyt			
Place neut	ralized slurry into se	aled containers and handle as applicable with state and federal regulati	ions. Large water-diluted spills, after
neutralizat	tion and testing, show	Id be managed in accordance with approved local, state and federal re-	quirements. Consult state environmental
0,	d/or federal EPA.		
Following	local, State/Province	al, and Federal/National regulations applicable to end-of-life character	istics will be the responsibility of the end-user.
	NSPORT INFORM	AATION	
U.S. DOT	-		
	-	n of wet and moist charged (moist active) batteries within the continen	
	-	of Federal Regulations, Title 49 (49CFR). These regulations classify t	• •
	Refer to CFR 49,	173.159 for more details pertaining to the transportation of wet and me	oist batteries.
	The shipping info	ermation 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 your Hav	vker representative for additional information regarding the classification	on of batteries.
		hat when transported by highway or rail, electric storage batteries conta	aining electrolyte or corrosive battery fluid are not subject to
any other r	*	subchapter, if all of the following are met:	
		rdous materials may be transported in the same vehicle;	
		must be loaded or braced so as to prevent damage and short circuits in	
	• •	terial loaded in the same vehicle must be blocked, braced, or otherwise	
	(4) The transport	vehicle may not carry material shipped by any person other than the sh	hipper of the batteries.
If any of th	ne above-referenced	requirements are not met, the batteries must be shipped as fully-regulat	ted Class 8 Corrosive hazardous materials.



SAFETY DATA SHEET

				ECO #: 1002580
ATA Dangerous Goods R		1/		
	· · ·		s regulated by the International Air Transport Asso	ciation
. ,	Instruction 870.	itteries as a nazardous ma	terial. The batteries must be packed according to	
The shipping in	nformation is as follows:			
	Proper Shipping Name: Batteries, w	et, filled with acid	Packing Group: N/A	
	Hazardous Class: 8		Label/Placard Required: Corro	osive
	UN Identification: UN2794			
	lawker representative for additional inform	nation regarding the class	fication of batteries.	
<u>MDG:</u> The internetion	al terror estation of such and suciet above	1 (maint antina) hattaniaa	a manulated by the Internetional Maritime Development	
	· · ·		s regulated by the International Maritime Dangero zardous material. The batteries must be packed ac	
,	ges 8120 and 8121. IMDG Code Packing	* 1	zardous material. The batteries must be packed ac	colding to
·	nformation is as follows:	instruction 1 001		
<u>ine suppling n</u>	Proper Shipping Name: Batteries, w	et, filled with acid	Packing Group: N/A	
	Hazardous Class: 8		Label/Placard Required: Corro	osive
	UN Identification: UN2794		····· · · · · · · · · · · · · · · · ·	
Contact your H	awker representative for additional inform	nation regarding the class	fication of batteries.	
V. REGULATORY INFO	ORMATION			
INITED STATES:				
EPA SARA Title III:				
	ely Hazardous Substances (EHS):	"	the shall block in Oracles (TDO) of 1,000 lbo	
			hreshold Planning Quantity (TPQ) of 1,000 lbs. present at one site (40 CFR 370.10). For more info	
	*		our Hawker representative for additional informati	
ection 304 CERCLA Haza	· · ·	by battery type. Contact y	our Hawker representative for additional informati	511.
	antity (RQ) for spilled 100% sulfuric acid	under CERCLA (Superfi	nd) and	
	• · · •		tate and local reportable quantities for spilled sulfu	ric acid may vary.
Section 311/312 Hazard Cat			······································	
EPCRA Sectio	n 312 Tier Two reporting is required for n	on-automotive batteries i	f sulfuric acid is present in quantities of 500 lbs or	more and/or if lead is
present in quar	tities of 10,000 lbs or more. For more info	ormation consult 40 CFR	370.10 and 40 CFR 370.40.	
Section 313 EPCRA Toxic S	Substances:			
40 CFR section	a 372.38 (b) states: If a toxic chemical is	present in an article at a c	overed facility, a person is not required to consider	the quantity of the
	· · ·	**	eshold has been met under § 372.25, § 372.27, or §	
-	_	-	applies whether the person received the article from	n another person
or the person p	roduced the article. However, this exempt	ion applies only to the qu	antity of the toxic chemical present in the article.	
Supplier Notification				
Supplier Notification: This product or	ontains toxic chemicals, which may be rer	ortable under FPCPA Se	ction 313 Toxic Chemical Release Inventory (Form	R) requirements
-			formation is provided to enable you to complete th	
	Q Q	<u> </u>	k k	<u> </u>
	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	7440-38-2	0.2	
	Tin	7440-31-5	0.2	
See 40 CRG Pa	art 370 for more details.			
If you distribut of each calenda	*	IC Codes 20 through 39,	his information must be provided with the first shi	pment
The Section 31	3 supplier notification requirement does r	not apply to batteries, whi	ch are "consumer products".	
	in all battery types. Contact your Hawker	managements time for addition	a al 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).
RCRA:	Chemical import Requirements of the Toxic Substances Control Act, Section IV.A).
<u></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:	
<u></u>	Hawker 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 611 of the Clean Air Act Amendments (CAAA)
	of 1990, finalized on January 19, 1993, Hawker established a policy to eliminate the use of Class I ODC's prior to the May 15, 1993 deadline.
STATE RI	EGULATIONS (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.
NTERNA	TIONAL 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).
	HER INFORMATION
Revised:	A 2/20/2024
JEDA Hor	zard Rating for Sulfuric Acid:
	Flammability (Red) = 0 Reactivity (Yellow) = 2
	Health (Blue) = 3 Sulfuric acid is water-reactive if concentrated.
DISCLAIN	
	view by the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent allowed by law,
•	cturer hereby expressly disclaims any liability to any third party including users of this product including but not limited to consequential or
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