



MATERIAL SAFETY DATA SHEET

VALVE-REGULATED MAINTENANCE-FREE LEAD ACID GEL BATTERY WET CHARGED AND NON SPILLABLE

SECTION 1: PRODUCT IDENTIFICATION

Product Name:	Valve regulated maintenance-free Lead-Acid Gel Batteries	
Common Synonyms:	SLA, VRLA, GEL Bloc & Monobloc	
DOT Description:	Wet Battery, Non-Spillable	
Chemical Family:	Electrical Storage Battery	
Company Name:	Leoch Battery / Mastervolt Sweden AB	
Address:	Neongatan 6, SE43153 MÖLNDAL SWEDEN	
Contact:	Phone: +4631-73-44-750 Fax: +4631-73-44-752	
Emergency Number:	CHEMTREC (US, Canada & Mexico)	Phone: 1-800-424-9300
	CHEMTREC (International)	Phone: 1-703-527-3887
Date Issued:	February 1, 2012	

SECTION 2: HAZARDOUS INGREDIENTS/ IDENTITY INFORMATION

COMPONENTS	Approx % by Wt.	CAS Number	Air Exposure Limits ($\mu\text{g}/\text{m}^3$)			LD50 ORAL (Rat) (mg/kg)
			ACGIH TLV-TWA	OSHA PEL-TWA	NIOSH REL	
Inorganic Lead/Lead Compounds	65-75	7439-92-1	50	50	50	500
Tin	0.1-0.2	7440-31-5	2000	2000	2000	
Calcium	0.03	7440-70-2	--	--	--	--
Aluminum	<0.002	7429-90-5	10000	5000	5000	--
Dilute Sulfuric Acid	20-25	7664-93-9	200	1000	1000	2140
Silicon Dioxide	1-2	60676-86-0	--	--	--	--
Case Material: Acrylonitrile Butadiene Styrene (ABS) or Polypropylene (PP)	~7.5	9003-56-9 9003-07-0	--	--	--	--

SECTION 3: PHYSICAL DATA

COMPONENTS	DENSITY g/cm^3	MELTING/BOILING (M/B) POINT	SOLUBILITY (H ₂ O)	ODOR	APPEARANCE
Lead	11.34	327.46 °C, 621.43 °F (M)	None	None	Sliver-Gray Metal
Lead Sulfate	6.20	1170 °C, 2138 °F (B)	40 mg/l (15 °C, 59 °F)	None	White crystals or powder
Lead Dioxide	9.40	290 °C, 554 °F (M)	None	None	Dark brown Powder
Sulfuric Acid	~1.3	95°C -115°C , 203°F - 240°F (B)	100%	Sharp, penetrating, pungent odor	Clear Colorless Liquid
Case Material: Acrylonitrile Butadiene Styrene (ABS) or Polypropylene (PP)	ABS: 1.04-1.06 PP: 0.9-0.91	ABS: 165°C-175°C (M) PP: 165°C -170°C(M)	None	None	Solid