

Shipping 7-5-88

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)

Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)
INDUSTRIAL LEAD ACID BATTERIES

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name KW BATTERY COMPANY	Emergency Telephone Number (312) 982-9060
Address (Number, Street, City, State, and ZIP Code) 3555 HOWARD STREET SKOKIE, ILLINOIS 60076	Telephone Number for Information (312) 982-9060
	Date Prepared MAY 16, 1986
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
SULFURIC ACID CAS #7664939 PER 40 CFR 116.4	1.0mg/m ³	1.0	N/A	10-35
ANTIMONY CAS #7440360	Not Available	.05	N/A	1-10
ARSENIC CAS #7440382	Not Available	0.01	N/A	1.0
LEAD CAS #7439921	Not Available	0.05	N/A	70-80

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	N/A		
Appearance and Odor	N/A		

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	LEL 4.0	UEL 74.2
Extinguishing Media	CARBON DIOXIDE (CO ₂); DRY CHEMICAL			
Special Fire Fighting Procedures	NONE			
Unusual Fire and Explosion Hazards	WILL GENERATE HYDROGEN ON OVERCHARGE			

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid CHARGING AND OVERCHARGING WITHOUT ADEQUATE VENTILATION
	Stable	X	

Incompatibility (*Materials to Avoid*) N/AHazardous Decomposition or Byproducts **HYDROGEN, ARSINE, STIBINE ON OVERCHARGING**

Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur	X	

Section VI — Health Hazard DataRoute(s) of Entry: Inhalation? **ACID MIST** Skin? **ACID** Ingestion? **ACID**Health Hazards (*Acute and Chronic*) **CHEMICAL BURNS DUE TO CONTACT WITH CORROSIVE SULFURIC ACID.****NO LEAD POISONING POSSIBLE UNLESS BATTERY IS DESTROYED**

Carcinogenicity: N/A NTP? N/A IARC Monographs? N/A OSHA Regulated? N/A

Signs and Symptoms of Exposure **SULFURIC ACID MIST WILL CAUSE COUGHING AND WILL BURN EYES AND SKIN.****NO POSSIBLE OVEREXPOSURE TO LEAD UNLESS BATTERY IS DESTROYED.**Medical Conditions Generally Aggravated by Exposure **NONE**Emergency and First Aid Procedures **EYES - FLUSH WITH CLEAR WATER FOR AT LEAST 15 MINUTES - SEE PHYSICIAN.**
BODY - FLUSH WITH CLEAR WATER.**Section VII — Precautions for Safe Handling and Use**Steps to Be Taken in Case Material Is Released or Spilled **WASH WITH WATER, NEUTRALIZE WITH SODIUM BICARBONATE.**Waste Disposal Method **NEUTRALIZE WITH SODIUM BICARBONATE. DISPOSE OF RESIDUE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS FOR CHEMICAL DISPOSAL.**Precautions to Be Taken in Handling and Storing **CHARGE ONLY IN WELL VENTILATED AREA. KEEP FLAMES AWAY DURING AND IMMEDIATELY AFTER CHARGING. DO NOT SHORT BATTERY WITH METAL TOOLS OR OBJECTS.**Other Precautions **N/A****Section VIII — Control Measures**Respiratory Protection (*Specify Type*) **SULFURIC ACID MIST - MASK WITH FILTER APPROVED FOR ACID MIST**

Ventilation	Local Exhaust ROOM AIR CHANGE FOUR TIMES PER HOUR	Special OSHA 1926.403
	Mechanical (<i>General</i>) AS ABOVE	Other

Protective Gloves **RUBBER GLOVES RECOMMENDED** Eye Protection **GOGGLES OR FACE SHIELD FOR CHEMICAL WORKERS**Other Protective Clothing or Equipment **RUBBER APRON, ACID RESISTANT CLOTHING RECOMMENDED**Work/Hygienic Practices **WASH THOROUGHLY AFTER HANDLING**DATE: **MAY 19, 1986**

Authorized Representative _____