MSDS for Pure Lead Batteries (Exide DD-3-3)

DD-3-3

Material Safety Data Sheet

Required under USDL Safety and Health Regulations for Shipyard Employment (29 CFR 1915)

U.S. Department of Labor

Occupational Safety and Health Administration

3-DD-3

OMB No. 1218-0074
Expiration Date 05/31/86

Section I

Manufacturer's Name	Emergency Telephone Number
EXIDE CORPORATION	(215) 441-7531
Address (Number, Street, City, State, and ZIP Code)	**Chemical Name and Synonyms**
101 Gibraltar Rd., Horsham, PA 19044	Batteries: Elec. Storage, Wet, Corrosive Mat'l. NA2794
	Trade Name and Synonyms EXIDE
	Chemical Family Pure-Lead — **Formula** N/A

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents	%	TLV (Units)	Alloys and Metallic Coatings	%	** TLV (Units)
Pigments			Base Metal: Lead	70-75	.05
Catalyst			Alloys: Sulfuric Acid*	10—30	1.0
Vehicle			Metallic Coatings		
Solvents			Filler Metal Plus Coating or Core Flux		
Additives			Others: Battery Case	5	—
Others			**mg/M³		

Hazardous Mixtures of Other Liquids, Solids or Gases

	%	TLV (Units)
*H_2SO_4 CAS #7664939 per 40 CFR 116.4		

Section III - Physical Data

Boiling Point (°F)	N/A	Specific Gravity (H_2O=1)	N/A
Vapor Pressure (mm Hg.)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Density (AIR=1)	N/A	Evaporation Rate (_____=1)	N/A

Solubility in Water: N/A

Appearance and Odor: N/A

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	Lel	Uel
N/A	Hydrogen	4.0%	74.2

Extinguishing Media: CO_2 Dry Chemical

Special Fire Fighting Procedures

Unusual Fire and Explosion Hazards: Will generate hydrogen and sulfuric acid mist on overcharge.

Section V - Health Hazard Data

Threshold Limit Value

Permissible exposure limit - Acid Mist - 1.0Mg/M³ (milligrams per cu meter of air)

Effects of Overexposure

No possibility of overexposure to lead, etc. unless battery is destroyed. Sulfuric acid mist causes coughing and will burn eyes and skin.

Emergency First Aid Procedures

EYES — Flush with water for at least 15 min. — See Physician

BODY — Flush with water.

Section VI - Reactivity Data

Stability	Unstable		Conditions to Avoid: Prolonged overcharging in confined spaces
	Stable	X	

Incompatability (Materials to Avoid)

Hazardous Decomposition Products

Hazardous Polymerization	May Occur		Conditions to Avoid: Prolonged overcharging in confined spaces.
	Will Not Occur	X	

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled

Wash with water or neutralize with sodium carbonate or bicarbonate.

Waste Disposal Method

Neutralize with sodium carbonate or bicarbonate.

Section VIII - Special Protection Information

Respiratory Protection (Specify Type)

Sulfuric acid mist - half mask with dust and mist filter.

Ventilation	Local Exhaust: Change air in room 3-4 times per hour	Special: OSHA 1926.403
	Mechanical (General): See above	Other

Protective Gloves: Rubber gloves recommended	Eye Protection: Recommended Acid Spray

Other Protective Equipment

Section IX - Special Precautions

Precautions to be Taken in Handling and Storing

Keep away from flames during and immediately after charge. Do not short battery with tools, etc.

Other Precautions

Avoid prolonged overcharge in confined areas.