

# 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)

**AC-71**

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

<b>Manufacturer's Name</b> Alupower, Inc.	<b>Emergency Telephone Number</b> (800) 255-3924
<b>Address (Number, Street, City, State and Zip Code)</b> 82 Mechanic Street Pawcatuck, CT 06379	<b>Telephone Number for Information</b> (860) 599-1100
<b>Date Prepared:</b> 4/23/1998	<b>Signature of Preparer: (optional)</b>

## Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))

	CAS No.	OSHA PEL	ACGIH TLV	Other Limits	
				Recommended	% (optional)
Carbon Black	1333-86-4	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>		
Manganese acetate tetrahydrate	7761-88-8				
Cobalt acetate tetrahydrate	6147-53-1				

(Under normal conditions of use, cathode material does not expose the user to toxic fumes or hazardous by-products)

This product does not contain EPCRA Section 313 chemicals.

## Section III - Physical/Chemical Characteristics

<b>Boiling Point</b>	N/A	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	N/A
<b>Vapor Pressure (mm Hg)</b>	N/A	<b>Melting Point</b>	N/A
<b>Vapor Density (AIR = 1)</b>	N/A	<b>Evaporation Rate (Butyl Acetate = 1)</b>	N/A
<b>Solubility in Water</b> N/A			
<b>Appearance and Odor</b> No Odor			

## Section IV - Fire and Explosion Hazard

<b>Flash Point (Method Used)</b> N/A	<b>Flammable Limits</b> N/A	<b>LEL</b> N/A	<b>UEL</b> N/A
<b>Extinguishing Media</b> Dry Chemical Extinguisher, CO <sub>2</sub>			
<b>Special Fire Fighting Procedures</b> Avoid breathing fumes, wear self-contained breathing apparatus. Move exposed material from fire area if it can be done without risk.			
<b>Unusual Fire and Explosion Hazards</b> N/A			

**Section V - Reactivity Data**

<i>Stability Normally Stable</i>	<i>Unstable</i>	N/A	<i>Conditions to Avoid</i>
	<i>Stable</i>	Yes	Keep away from fire

*Incompatibility (Materials to Avoid)*

*Hazardous Decomposition or Byproducts*

<i>Hazardous Polymerization</i>	<i>May Occur</i>	N/A	<i>Conditions to Avoid</i>
	<i>Will Not Occur</i>	N/A	N/A

**Section VI - Health Hazard Data**

<i>Route(s) of Entry:</i>	<i>Inhalation?</i>	<i>Skin</i>	<b>NFPA/HMTS</b>	<b>H</b>	<b>F</b>	<b>R</b>
			<i>Ingestion?</i>	2	1	1
		X	X			

*Health Hazards (Acute and Chronic)*

No hazards associated with handling under normal conditions. Gastrointestinal effects by ingestion.

<i>Carcinogenicity:</i>	<i>NTP?</i>	<i>IARC Monographs?</i>	<i>OSHA Regulated?</i>
	NO	NO	NO

*Signs and Symptoms of Exposure*

Skin & Eye irritation  
Inhalation hazard if exposed to fumes of burning material

*Medical Conditions*

*Generally Aggravated by Exposure* N/A

*Emergency and First Aid Procedures*

No First Aid procedures required. In case of contact, flush eyes with water, wash skin with soap and water. See a Doctor if discomfort or irritation is experienced.

**Section VII - Precautions for Safe Handling and Use**

*Steps to be Taken in Case Material is Released or Spilled*

N/A

*Waste Disposal Method*

Dispose of material in accordance with local, state and federal regulations.

*Precautions to be Taken in Handling and Storage*

Avoid Exposure to Fire

*Other Precautions*

**Section VIII - Control Measures**

*Respiratory Protection (Specific Type)*

N/A

<i>Ventilation</i>	<i>Local Exhaust</i>	Yes	<i>Special</i>
	<i>Mechanical (General)</i> Per ACGIH Handbook Recommendation		<i>Other</i>

*Protective Gloves*

Gloves

*Eye Protection*

Safety Glasses

*Other Protective Clothing or Equipment*

N/A

*Work Hygienic Practices*

Wash thoroughly after working with material.