

IC[®] ILLINOIS CAPACITOR, INC.

Material Safety Data Sheet (MSDS) Aluminum Electrolytic Capacitors

Supplier information

Supplier: Illinois Capacitor, Inc.	
Address: 3757 W. Touhy Ave. Lincolnwood, IL 60712	Contact: Mark Gebbia
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Material content and identification

Material	Percentage (typical)
Aluminum foil	32.24
Capacitor paper	8.61
Electrolyte	11.94
Lead wire	4.97
Rubber end seal	19.44
Aluminum can	18.67
Sleeve (PVC)	4.13
Total	100

Material: Electrolyte

Hazardous Materials			CAS NO.	Acceptable Concentrate			LC 50	LD 50
Name	Formula	Content (%)		TWA	STEL	CELLELING		
Ethylene Glycol	CH ₂ OH	90	00107-1-21-1	20mg/m3 (15 mins)	-	-	-	5.84g/Kg
Ammonium adipate	NH ₄ COC(CH ₂) ₄ COONH ₄	10	3385-41-9	-	-	-	-	984 mg/Kg

Physical and chemical properties

Material phase: Liquid		PH value: N/A
Boiling point: 196~198°C	Melting point:-25°C	Smell: sweet
Vapor Density:2.1	Density: (20°C)1.11	Vapor pressure(20°C) 0.05mmHg (30°C) 0.2mmHg
Vapor speed:		Water solubility: can be soluble under every ratio

Fire Fighting Measure water Solubility

Flash Point	
Extinguishing media: Dry chemical powder, Alcohol resistant foam, Carbon dioxide, fog.	
Specific extinguishing procedure	<ol style="list-style-type: none"> 1. Water based extinguishers should not be used for fires involving organic material. 2. Full protective clothing and self contained breathing apparatus, keep adjacent containers cool by spraying with water.

Stability and Reactivity

Stability	Stable	Yes
	Unstable	
Hazard polymerization	Possible	Yes
	Impossible	
Incompatibilities	Avoid: Strong oxidizing agents, strong acid, strong alkaline	

Health hazard and first aid measures

<p>Health hazard:</p> <p>Eye contact: May cause mild irritation.</p> <p>Skin contact: May cause skin irritation.</p> <p>Inhalation: Sign and symptoms of excessive exposure may feel headache or sick.</p>
<p>First aid measures:</p> <p><u>First aid eyes:</u> Flush with large amount of water. If irritation persists, seek medical attention.</p> <p><u>First aid Skin:</u> Rinse with water. If persistent irritation occurs, obtain medical attention.</p> <p>If contact with Melting material remove contaminated clothing, jewelry and shoes immediately. Wash with soap or mild detergent and large amount of water until no more chemical remain. Seek medical help if needed.</p> <p><u>Inhalation:</u> Inhalation is not considered a problem. If any breathing difficulties are noticed, remove to fresh air and seek medical attention if needed.</p> <p><u>Ingestion:</u> If vomiting occurs keep head lower than hips to help prevent aspiration. Get medical help if needed.</p>

Accidental release measures

Personal Protection	Wear protective equipment including rubber gloves and eye protection.
Personal precautions	Remove ignition sources, no smoking. Avoid sparks. Evacuate the area of all non-essential personnel. Shut off leaks, without personal risk when possible.
Environmental Precautions	Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

Handling and storage

Handling	Remove all ignition sources. Avoid sparks. Do not smoke. Do not empty into drains.
Storage	Keep away from direct sunlight and other sources of heat or ignition. Keep container tightly closed and in a well-ventilated place.

Transportation information

(UN NO)	Hazard Indication	9	Hazard labels	White and black
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