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CHEMICAL

MATERIAL SAFETY DATA SHEET

**MAINTENANCE FREE • VALVE REGULATED • SEALED LEAD ACID AGM & GEL
NON-SPILLABLE**

SECTION I: GENERAL INFORMATION

Manufacturer's Name: Crown Battery Mfg. Company Emergency Number: 800-424-9300
Street Address: 1445 Majestic Drive International: 703-527-3887
City, State, Zip: Fremont, Ohio 43420 USA
Phone Number: 419 334 7181 Revision Date: 10/03/2003

SECTION II: MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS Hazardous Components 1% or greater Carcinogens 0.01 % or greater	PERCENT	OSHA PEL	ACGIH TLV	OTHER LIMITS	CAS NUMBER
METALLIC METAL ALLOY	25.5%	0.05mg/m3	.05 mg/m3	NONE	7439-92-1
LEAD SULFATES	18.2%	0.05mg/m3	.05 mg/m3	NONE	7439-92-1
LEAD OXIDES	18.0%	0.05mg/m3	.05 mg/m3	NONE	7439-92-1
POLYPROPYLENE CASE MTL SEPARATORS	6.4% 3.5%				
SULFURIC ACID (H2SO4)	5.2%	1.0 mg/m3	1.0 mg/m3	NONE	7664-93-9
WATER	19.2%				

SECTION III: PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: Approximately 203F Vapor Density: Greater than 1
Vapor Pressure: 14 @ 37% @ 80 F Melting Point: -35 F to +10.6 F
Solubility in Water: 100% Water Reactive: Yes, Produces Heat
Specific Gravity: 1.245 - 1.295 Battery Electrolyte
Appearance & Odor: Clear Liquid with Sharp Pungent Odor

SECTION IV: FIRE AND EXPLOSION HAZARD DATA:

Flash Point: Not Combustible NFPA WARNING: 1
Auto Ignition Temperature: N/A Flammability Limits in Air % by Volume: N/A
Extinguishing Media: Dry Chemical Carbon Dioxide, Water Fog, Water
Special Fire Fighting Procedures: Sulfuric Acid Fumes, Sulfur Dioxide Gas or Carbon Monoxide may be released when acid decomposes. Wear NIOSH approved self contained breathing apparatus.

Unusual Hazards: Water applied to sulfuric acid generates heat and causes acid to spatter. Wear full-cover acid resistant clothing. Sulfuric acid reacts violently with metals, nitrates, chlorates, carbides, fulminates, picrates and other organic materials. Reacts with most metals to yield explosive/flammable hydrogen gas. This reaction is intensified when sulfuric acid is diluted with water to form battery electrolyte.

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SECTION V: REACTIVITY DATA

Stability: STABLE

NFPA WARNING: 0

CONDITIONS TO AVOID: Charging and over-charging without proper ventilation.

Incompatibility: AVOID COMBUSTIBLES, ORGANIC MATERIALS, AND STRONG REDUCING AGENTS.

Hazardous Decomposition Products:

SULFUR TRIOXIDE, CARBON MONOXIDE, SULFURIC ACID FUMES AND SULFUR DIOXIDE. Hydrogen, Arsine, Stibene with over charging.

Hazardous Polymerization: Should not occur

SECTION VI – HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation - Yes
Skin Yes
Ingestion Yes

NFPA WARNING: 3

HEALTH HAZARDS - Acute: Eyes, Skin, Respiratory System & Digestive System
Chronic: Eyes, Skin, Respiratory System & Digestive System

Exposure to Lead Compounds can occur only when product is heated, oxidized or other-wised processed or damaged to create dust vapor or fume. Lead is a systemic poison.

Carcinogenicity - NTP: No

Carcinogenicity - IARC: Yes (Group 2 B *94-4*

Carcinogenicity -OSHA: No

Signs and Symptoms of Exposure: Irritation of Exposed Area, Burns, and Respiratory Problems
No possibility of over exposure of lead will occur unless battery is destroyed.

MEDICAL CONDITIONS GENERALLY:

Aggravated by Exposure: Exposure to acid mist may cause lung damage & aggravate pulmonary conditions.

EMERGENCY FIRST AID PROCEDURES

Seek medical assistance for further treatment, observation and support if necessary.

Eye Contact: Wash with copious quantities of cool water for at least 15 minutes.

Skin Contact: Flush area with large amounts of cool water for at least 15 minutes.

Inhalation: Remove to fresh air, if breathing is difficult – give oxygen.

Ingestion: Give milk to drink. DO NOT INDUCE VOMITING, CALL PHYSICIAN.