

Material Safety Data Sheet

Number: **DMN0260**

Product Name: **Battery, Wet, Lead-Acid**

Inorganic acid.

Revised: 5/29/08

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Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>Carcinogen</u>
Lead	7440-36-0	> 60%	Yes
Sulfuric acid	7664-93-9	10 - 30%	No
Antimony	7440-38-2	1 - 2%	No
Arsenic	7664-93-9	0.2%	Yes

Section 3 - Hazards Identification

Emergency Overview: Battery acid is corrosive to all body parts. Battery charging releases flammable hydrogen gas. A colorless liquid.

Health Hazards: Corrosive

Physical Hazards: Reactive

Primary Routes of Entry: Through Skin Inhalation Ingestion

Potential Health Effects:

Eyes - causes severe damage and may cause blindness very rapidly.

Skin - causes severe burns with permanent damage if not rinsed off immediately.

Swallowing - causes severe damage to mucous membranes and possibly deep tissue damage and gastrointestinal burns.

Breathing - excessive inhalation of vapors produced during charging may cause irritation.

Section 4 - First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

Skin Contact: Flush exposed skin with running water for 15 minutes. Remove contaminated clothing and shoes. If redness, irritation or other symptoms exist after flushing, get medical attention immediately. Wash clothing before wearing again. Throw away contaminated shoes.

Inhalation: Move the affected person to fresh air. If irritation persists, get medical attention.

Ingestion: If the acid is swallowed, do NOT induce vomiting. If affected person is conscious, give a glass of water or milk to drink. Treat for shock by keeping the person warm and quiet. Get medical attention immediately.

Section 5 - Fire-Fighting Measures

Flash Point: None (ASTM D-56 closed cup)

Lower Explosive Limit: Not Applicable

Upper Explosive Limit: Not Applicable

Extinguishing Media: Any.

Special Fire Fighting Procedures: None.

Unusual Fire And Explosion Hazards: Charging batteries release flammable hydrogen gas.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Use adequate personal protective equipment.

Neutralize spills with baking soda or soda ash (sodium carbonate). After neutralizing, spills can be washed to the sanitary sewer with plenty of water.

Section 7 - Handling and Storage

Bleach Warning: If battery acid contacts bleach or a cleaner containing bleach, it could produce a dangerous gas (chlorine).

Section 8 - Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>TWA(source)</u>	<u>STEL</u>	<u>Ceiling</u>
Lead	7440-36-0	> 60%	.05 mg/m ³ (1,2,3,4)	-	-
Sulfuric acid	7664-93-9	2 - 10%	1 mg/m ³ (1,2,4)	3 mg/m ³ (3,4)	-
Antimony	7440-38-2	1 - 2%	.5 mg/m ³ (1,2,3,4)	1.5 mg/m ³ (4)	-
Arsenic	7664-93-9	0.2%	.01 mg/m ³ (1,2,3)	-	-

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous

Ventilation: Battery charging area should have sufficient ventilation to dissipate hydrogen gas formed

Respiratory Protection: None.

Protective Gloves: Use rubber, latex or PVC gloves. Do not use disposable gloves.

Eye Protection: Wear safety glasses with side shields or chemical goggles or face shield when adding water.

Other Protective Equipment: An eyewash station and safety shower should be located within 10 seconds travel time of charging area. If splashing is likely, wear apron, protective clothing and/or boots as the situation calls for.

Section 9 - Physical and Chemical Properties

Boiling Point: 203° F.

Vapor Pressure: 10 mm Hg

Specific Gravity: 1.23-1.35

Vapor Density: Less than air.

Percent Volatiles: Not Applicable

Evaporation Rate: 1 (Water = 1)

Solubility In Water: Electrolyte is soluble

pH: concentrate 0.0 ± 0.5

Appearance and Odor: A colorless liquid with an acidic odor.

Section 10 - Stability and Reactivity

Incompatibility: Alkalis, bleach, oxidizers, reactive metals. **Hazardous Decomposition Products:** None

Section 11 - Toxicological Information

Target Organs: None.

Section 12 - Ecological Information

Do not dispose of batteries in the environment. Return to battery recycler.

Section 13 - Disposal Considerations

Waste Disposal Method: Neutralized spilled acid may be washed to the sanitary sewer with a large amount of water. Dispose of batteries properly by returning them to an authorized battery recycler.

Section 14 - Transport Information

D.O.T. Hazard Class: UN 2974 Battery, Wet, Filled With Acid, Corrosive Material, 8, P.G. III (Contains sulfuric acid)

Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

Section 313 Supplier Notification: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and CFR 372.

<u>Chemical Name</u>	<u>C.A.S. No.</u>	<u>% By Weight</u>	<u>Lbs./Gallon</u>
Sulfuric acid	7664-93-9	%	
Lead	7439-92-1	%	

Section 16 - Other Information

NFPA: H:2 F:1 I:1 **HMIS® III:** H:3 F:1 P:1 These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 5/10/92. Converted to ANSI format.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.