

MATERIAL SAFETY DATA SHEET					
PRODUCT NAME - BATTERY ELECTRIC STORAGE WET UN2794					
STAAB BATTERY MFG., CO. INC. 931 SOUTH ELEVENTH STREET SPRINGFIELD IL 62703-1799 217-528-0421			24-HOUR EMERGENCY TELEPHONE INFOTRAC 1-800-535-5053		
SECTION 1 PRODUCT IDENTIFICATION					
COMMON NAME - Lead Acid Battery			CHEMICAL NAME - Electric Storage Battery		
SECTION 2 HAZARDOUS COMPONENTS					
Approximate Air Exposure Limits (ug/m3)					
Components	CAS Number	% by Weight	OSHA	ACGIH	NIOSH
Lead	7439-92-1	60-70	50	50	50
Antimony	7440-36-0	0.5	500	500	500
Tin	7440-31-5	0.2	2000	2000	2000
Arsenic	7440-70-2	0.1	10	10	2
Electrolyte (Sulphuric Acid/water)	7664-93-9	25-40	1000	200	1000
Polypropylene	9003-07-0	5-10	n/a	n/a	n/a
HAZARD INDEX		Health - 3	Flammability - 0	Reactivity - 2	
SECTION 3 PHYSICAL DATA					
Boiling Point Electrolyte	230-250 F		Specific Gravity Water = 1	1.100 to 1.300	
Soluble in Water	100%		Vapor Pressure	<6 mm Hg	
Evaporation Rate Ether = 1	Slower (Electrolyte)		Vapor Density Air = 1	Greater than 1	
APPEARANCE AND ODOR – Lead: gray metallic solid or liquid. Acid: clear to pale straw color liquid. Battery polypropylene: solid.					
SECTION 4 FIRE & EXPLOSION DATA					
FLASH POINT Not applicable			AUTO IGNITION TEMP 675 F		
EXTINGUISHING MEDIA – Dry chemical, carbon dioxide or foam or sand.					
SPECIAL FIRE FIGHTING PROCEDURES - If water is used for surrounding area fire, use care as water and sulfuric acid will react with evolution of heat and spattering.					
UNUSUAL FIRE & EXPLOSION HAZARDS - When charging and discharging, flammable gases are emitted and these could ignite with considerable violence.					
SECTION 5 REACTIVITY					
STABLE - Yes			CONDITIONS TO AVOID - Excess heat or prolonged overcharging.		
INCOMPATIBILITY (MATERIAL TO AVOID) - Contact of electrolyte with alkali's and water.					
HAZARDOUS DECOMPOSITION PRODUCTS – Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, hydrogen sulfide.					
SECTION 6 HEALTH HAZARD DATA					
ROUTES OF ENTRY – Harmful by all routes of entry.					
INHALATION – Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.					
INGESTION – May cause severe irritation of mouth, throat, esophagus, and stomach.					
SKIN CONTACT – Severe irritation, burn, and ulceration.					
EYE CONTACT – Severe irritation, burns, and ulceration.					

SECTION 6 HEALTH HAZARD DATA (continued)

EFFECTS OF OVEREXPOSURE – ACUTE – Severe skin irritation, damage to cornea may cause blindness, upper respiratory irritation.

EFFECTS OF OVEREXPOSURE – CHRONIC – Possible erosion of tooth enamel, inflammation of nose, throat, and bronchial tubes.

CARCINOGENICITY – Electrolyte in batteries is not considered a carcinogenic.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSE - Any skin condition subjected to corrosive effects of sulfuric acid.

EMERGENCY & FIRST AID PROCEDURES - If fumes of electrolyte are inhaled, remove victim to fresh air and seek medical aid.

EYE CONTACT - Flush with large amounts of water for at least 15 minutes and seek medical aid.

SKIN CONTACT - Immediately wash with water. Treat as chemical burn and seek medical aid.

INGESTION - Drink large amounts of water. DO NOT induce vomiting, seek medical aid.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

HANDLING AND STORING - Store in a cool dry environment. Do not drop, smash, or invert. Prevent leakage of electrolyte. Keep away from metal objects that could cause a short of the battery terminals.

CHARGING – Batteries generate hydrogen gas when charging. Charging areas should be ventilated. Wear face and eye protection when near batteries being charged.

SPILL OR LEAKS – Use full protective equipment. Neutralize electrolyte spill with lime or soda ash. Absorb neutralized acid with sand, ashes or other non-combustible material. Confer with Federal, State and local official on disposal of absorbent.

WASTE DISPOSAL PROCEDURES – Waste or junk batteries to be disposed of should be returned to secondary lead smelter for recycling.

SECTION 8 CONTROL MEASURES

RESPIRATORY EQUIPMENT – Not needed if concentrations of sulfuric acid mist are below PEL levels.

PROTECTIVE CLOTHING – Chemical goggles and face shield. Acid resistant gloves.

OTHER – (Safety showers, Eyewash stations, etc.) For normal use and handling fresh water should be available to neutralize splashes to eye or skin.

SECTION 9 OTHER REGULATORY INFORMATION

TRANSPORTATION: Proper shipping name – Battery, Wet, Filled with acid
Hazard Class – 8
ID Number – UN2794
Packing Group – III
Label Required - Corrosive

RCRA: Spent lead-acid batteries are not regulated as hazardous waste when recycled.

CALIFORNIA PROPOSITION 65: “Warning: This product contains lead, a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.”

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