

4919 Woodall St Dallas, TX 75247

Office: 214 - 631 - 5701 | Toll Free: 800 - 442 - 0081 | Fax: 214 - 634 - 7846

UN2796

PRODUCT NAME: Electrolyte Battery Fluid Acid

IMCO CLASS NO. 8

FOR CHEMICAL EMERGENCY SPILL, LEAK, FIRE, EXPLOSION, OR ACCIDENT CALL INFOTRAC:1-800-535-5053

MATERIAL SAFETY DATA SHEET

HAZARDOUS COMPONENTS

DOMES NEW YORK	O/ MACIOUT	TIV	LD 50	LC 50	LC 50
COMPONENTS	% WEIGHT	TLV	ORAL.	INHALATION	CONTACT
Lead (Pb. PbO ₂ PbSO ₄)	About 70%	N/A	(500) mg/kg	N/A	N/A
Sulfuric acid	About 20%	1 mg/m3	(2,140) mg/kg	N/A	N/A
Fiberglass Separator	About 5%	N/A	N/A	N/A	N/A
Styron R 478 (Polystyrene)	About 5%	N/A	N/A	N/A	N/A_

PHYSICAL DATA

COMPONT	DENSITY	MELTING POINTS	SOLUBILITY (H ₂ O)	ODOR	APPEARANCE
Lead	11.34	327.4°C (Boiling)	None	None	Silver-gray Metal
Lead Sulfate	6.2	1070°C (Boiling)	40 mg/l (15°C)	None	White Powder
Lead Dioxide	9.4	290°C (Boiling)	None	None	Brown Powder
Sulfuric Acid	About 1.3	About 114°C (Boiling)	100%	ACIDIC	CLEAR COLORLESS LIQUID
Fiberglass Sep.	N/A	N/A	SLIGHT	TOXIC	WHITE FIBROUS GLASS
478 Polystyrene	N/A	N/A	NONE	NO ODOR	SOLID

FLAMMABILITY DATA

COMPONET	FLASHPOINT	EXPLOSIV E LIMITS	COMMENTS
Lead	None	None	,
Sulfuric Acid	None	None	
Hydrogen		4%-74.2%	Sealed batteries can emit hydrogen only if over charged (float voltage > 2.40VPC)
Fiberglass Sep.	N/A	N/A	Toxic vapors may be relapsed. In case of fire: wear sell-contained breathing apparatus.
478 Polystyrene	None	N/A	Temperatures over 300°C (572°F) may release combustible gases. In case of fire. Wear positive pressure self-contained breathing apparatus.

FIRST AID

SULFURIC ACID PERCAUTIONS

SKIN CONTACT: Flush with water, see physician if contact area is large on if blisters form. EYE CONTACT: Call physician immediately and flush with water until physician arrives.

INGESTION: Call physician. If patient is conscious, flush mouth with water, have the patient drink milk or sodium bicarbonate solution.

DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON.

REACTIVITY DATA

COMPONENT	Sulfuric acid
STASILITY	Stable at all temperatures
POLYMEFIZATION	Will not polymerize
INCOMPATISILITY	Reactive metals, strong bases, most organic compounds.
DECOMPOSITION PRODUCTS	Sulfuric dioxide, trioxide, hydrogen sulfuric hydrogen.
CONDITIONS TO AVOID	Prohibit smoking, sparks etc. from battery charging area. Avoid mixing acid with other chemicals.

SPILL OR LEAK PROCEDURES

STEPS TO TAKE IN CASE OF LEAK OR SPILL:

If sulfuric acid is spilled from a battery, neutralize the acid with sodium bicarbonate (baking soda), sodium carbon (soda ash), or calcium oxide (lime). Flush the area with water and discard to the sewage system. Do not allow unneutralized acid into the sewage system.

WASTE DISROSAL METHOD:

Neutralized acid may be flushed down the sewer. Spent batteries must be treated an hazardous waste and disposed of according to local state, and federal regulations. A copy of this material safety data must be supplied to any scrap dealer or secondary lead smelter with battery.

PROTECTION

EXPOSURE SITE	PROTECTION	COMMENTS	
SKIN	Rubber Gloves, Apron	Protective equipment must be worn if the battery is cracked or otherwise damaged. A	
RESPIRATORY		respirator should be worn during reclaim operations if the TLV is exceeded.	
EYES	Safety Goggles, Face Shield	Toophator official to work garage of the second sec	

ELECTRICAL SAFETY

Due to the battery's low internal resistance and high power density, high levels of short circuit current can be developed across the battery terminals. Do not rest tools or cables on the battery. Use insulated tools only. Follow all installation instructions and diagrams when installing or maintaining battery system.

HEALTH HAZARD DATA

LEAD: The toxic effects of lead are accumulative and slow to appear. It affects the kidney reproductive, and central nervous system. The symptoms of lead overexposure are aneinia, vomiting, headache, stomach pain (lead colic), dizziness, lost of appetite, and muscle and joint pain. Exposure to lead from a battery most often occurs during lead reclaim operations through the breathing or ingestion of lead dusts and fumes. THIS DATA MUST BE PASSED TO ANY SCRAP DEALER OR SMELTER WHEN A BATTERY IS RESOLD

SULFURIC ACID: Sulfuric acid is a strong corrosive. Contact with acid can cause severe burns on the skin and in eyes. Ingestion of sulfuric acid will cause GI tract burns. Acid can be released if the battery case is damage or if the vents are tampered with.

FIBERGLASS SEPARATOR: Fibrous glass is an irritant of the upper respiratory tract., skin and eyes. For exposure up to 10F/CC use MSA Comfoll with type H filter. Above 10F/CC up to 50F/CC used Ultra-Twin with type H filter. This product is not considered carcinogenic by NTP or OSHA