

Material Safety Data Sheet

Battery Fluid, Acid (Electrolyte)

This Material Safety Data Information Sheet is principally directed to managerial.. safety, hygiene and medical personnel. The description of physical, chemical and toxicological properties and handling advice is based on experimental results and past experience. It is intended as a starting point for the development of health and safety procedures.

DOT LABELING REQUIREMENTS

Shipping Name: Battery fluid, acid
 Class: 8
 UN No.: UN2796

HAZARDOUS INGREDIENTS/IDENTITY:

	OSHA PEL	ACGIH TLV	CAS NUMBER	WEIGHT %
Sulfuric Acid - 66' Baume (Mineral Acid, Oil of Vitriol, H ₂ SO ₄ , sulphuric acid)	1 mg/M	1 mg/ M	7664-93-9	31-39
WATER				61-69
40 CFR Part 372.45				

TOXICOLOGY DATA:

Notification: Battery fluid, acid contains between 31 and 39% by weight of H₂SO₄, (CAS No. 7664-93-9) and is subject to the reporting requirements of section 313 of Title III of the superfund amendments and re-authorization act of 1986. It is also subject to the reporting requirements of 40 CFR part 372.

Acute oral LD₅₀: 2,140 mg/kg in ratio, skin and eye irritation (rabbit):
 Corrosive inhalation 1 hour LC₅₀ Rat: 347 PPM

PHYSICAL & CHEMICAL CHARACTERISTICS:

Formula: H₂SO₄
 Formula Weight: 98.08
 Physical State/Description: Clear, to yellowish liquid

Boiling Point: 32-38 % above 235 Degrees F
 Flash Point: Not applicable
 Freezing Point: 32-38% = less than -49 Degrees F
 Odor: Acrid sharp unpleasant odor
 pH: Less than 1 (1% aqueous solution)
 Specific Gravity: 32-38% = 1.240 to 1.280 (water = 1)
 Vapor Density: 3.4 (Air = 1 at boiling point of sulfuric acid)
 Vapor Pressure: 32-38% = Less than 1 mmHg at 100 degrees F (37.8'C)
 Water Solubility: Soluble in all proportions
 Reportable
 Quantity: 1,000 lb./454 kg. As H₂SO₄

HMIS RATINGS

Health ----- 3
 Flammability ----- 0
 Reactivity ----- 2
 Personal Protection ... D

HAZARDINDEX

0 = Insignificant
 1 = Slight 2 = Moderate
 3 = High 4 = Extreme