

Safety & Health Quick List

Chemical/Product Name:	Sulfuric Acid
Synonym:	

CAS No: 7644-93-9

Hazard Statements: May be corrosive to metals.
 Toxic if inhaled.
 Causes severe skin burns and eye damage.
 May cause respiratory irritation.
 May cause cancer.
 May cause damage to organs through prolonged or repeated exposure.
 Harmful to aquatic life.

NFPA Ratings:	4-Dangerous	3-Severe	2-Moderate	1-Slightly Hazardous
GHS Ratings:	1-Dangerous	2-Severe	3-Moderate	4-Slightly Hazardous

Physical Properties

NFPA Rating: Health	3
NFPA Rating: Flammability	0
NFPA Rating: Reactivity	2
GHS Classifications: Corrosive	1
GHS Classifications: Health Hazard	2
Fire Extinguisher Type	Foam, Carbon Dioxide or Dry Powder
Freeze Point	50.56 F
LEL %	N/A
UEL %	N/A
Vapor Density	3.4

Auto Ignition Temperature	N/A
Solubility in Water	Miscible
Specific Gravity	1.8302
Flash Point	N/A
Vapor Pressure	5.93 x10^-5 mmHg
Max Concentration	100%
Boiling Point	638.6 F
RQ	1000 lbs

Exposure Guidelines

PEL/TLV	1 mg/cu m
STEL	N/A
Ceiling	N/A
Skin Notation (S)	1
Carcinogen	1A

Corrosive	1
Irritant	1
IDLH	15 mg/cu m
Odor Threshold	1.0 mg/cu m
Sensitizer	N/A

Emergency Response

EPRG-1	2 mg/m^3	Isolate for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids
EPRG-2	10 mg/m^3	Isolate for 800 meters (1/2 mile)
EPRG-3	120 mg/m^3	
Monitoring Method	N/A	

Normal Tasks

Sampling
 Drum/Tote Filling
 Strapping Tank/Truck

PPE Group

Group 3
Group 3
Group 3
Group 3
Group 3
Group 3
Group 3
Group 3
Group 3
Group 3
Group 3

Hose Disconnect Unclear (Camlock Fitting)
 Hose Disconnect Unclear (Dry Disconnect)
 Line/Equipment Opening Unclear
 Line/Equipment Opening Clear
 Contaminated Equipment in Maintenance Shop
 which can't be cleaned
 Tank Cleaning (No Chemicals Present)
 Tank Cleaning (Chemicals Present)

Emergency Response Tasks

Small Spill
 Medium Spill
 Large Spill
 Downwind Monitoring (Vapor Only)
 Liquid Contact (HAZMAT)

PPE Group

Group 3
Group 3
Group 3
Group 3
Group 3

Lab Handling

Inside Hood
 Outside Hood

PPE Group

Group 12
Group 11

NUMBER	KEY CODE	DESCRIPTION
GROUP 2	GENERAL PROCESS AREA	Standard PPE - Hard Hat, Nomex Coveralls, Safety Side-Shield Glasses, Work Gloves (Leather)
GROUP 9	TYCHEM SUIT	Standard PPE (Group 2) with Chemical Gloves, Boots, Tychem Suit, and the Required Respirator
GROUP 11	STANDARD LAB -L	Nomex Lab Coat, Safety Side-Shield Glasses, Latex Gloves
GROUP 12	STANDARD LAB -N	Nomex Lab Coat, Safety Side-Shield Glasses, Nitrile Gloves
Respirator Type	Half Face, OVR. *full face positive pressure respirator if	
Chemical Glove Type	Butyl Rubber or Polyethylene	

PPE Example



