



SAFETY DATA SHEET

Preparation Date: 2/18/2014 Revision date 8/16/2019 Revision Number: G5

1. IDENTIFICATION

Product identifier

Product code: S1736

Product Name: SULFURIC ACID, FCC

Other means of identification

Synonyms: Oil of Vitriol

Hydrogen Sulfate

Dihydrogen Sulfatesulfurique (French)

Ácido sulfuric (Spanish)

CAS #: 7664-93-9
RTECS # WS5600000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Fertilizer compositions. Echant. Laboratory reagent.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Inhalation (Gases)	Category 2
Acute toxicity - Inhalation (Vapors)	Category 2
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements

Danger

Hazard statements

Fatal if inhaled

Causes severe skin burns and eye damage

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if swallowed

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear respiratory protection
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Sulfuric Acid	7664-93-9	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect

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himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water

for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical

attention is required. Call a physician immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a

physician immediately.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is

required. Call a physician immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. If victim is conscious, give water or milk. Follow with Milk of Magnesia or egg whites beaten with water. Immediate medical attention is required. Call a physician

or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms Severe skin and eye irritation or burns

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products No information available.

Specific hazards Contact with metals may evolve flammable hydrogen gas.

Metal acetylides (Monocesium and Monorubidium), and carbides ignite with concentrated sulfuric acid. White Phosphorous + boiling Sulfuric acid or its vapor ignites on contact. May ignite other combustible materials. May cause fire when sulfuric acid is mixed with Cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phorphorous (III) oxide, and oxidizing agents such as chlorates, halogens, permanganates. Mixtures of sulfuric acid and any of the following can explode: p-nitrotoluene, pentasilver trihydroxydiaminophosphate, perchlorates, alcohols with strong hydrogen peroxide, ammonium tetraperoxychromate, mercuric nitrite,

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potassium chlorate, potassium permanganate with potassium chloride, carbides, nitro compounds, nitrates, carbides, phosphorous, iodides, picratres, fulminates, dienes, alcohols (when heated)Nitramide decomposes explosively on contact with concentrated sulfuric acid.1,3,5-Trinitrosohexahydro-1,3,5-triazine + sulfuric acid causes explosive decompositon. Containers may explode when heated or if contaminated with water. Reaction with water may generate much heat which will increase the concentration of fumes in the air.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Use

personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or

confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk.

Methods for cleaning upNeutralize with Sodium carbonate or Sodium bicarbonate. Dilute with water.

Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a

suitable chemical waste container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Use only in area provided with appropriate exhaust ventilation. Do not allow contact with water. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. May corrode metallic surfaces. Do not store in uncoated metallic containers. Store in a segregated and approved area. Do not store near combustible materials. Store away from incompatible materials.

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Incompatible Materials:

Oxidizing agents Reducing agents Organic materials Combustible materials

Bases Amines Metals Water

Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Sulfuric Acid	7664-93-9	1 mg/m³ TWA	1 mg/m³ TWA	0.2 mg/m ³ TWA	None
				thoracic particulate	
				matter	

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sulfuric Acid	7664-93-9	1 mg/m³ TWA 3 mg/m³ STEL	0.2 mg/m³ TWA thoracic	None	1 mg/m³ TWAEV 3 mg/m³ STEV

Australia and Mexico

Component	CAS No	Australia	Mexico
Sulfuric Acid	7664-93-9	3 mg/m³ STEL 1 mg/m³ TWA	0.2 mg/m³ TWA

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation.

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Face-shield.

Skin and body protection: Chemical resistant protective suit

Gloves Boots

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:LiquidViscous. Oily.Colorless.

Odor: Taste Formula
Odorless, but has a choking odor Strong. Acid. H2SO4
when hot.

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):
98.08 Flashpoint (°C/°F):
No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F): No information available 340 °C/644 °F

Boiling point/range(°C/°F):270-337 °C/518/638.6 °F

Bulk density:
No information available

Density (g/cm3):
No information available

Specific gravity:pHVapor pressure @ 20°C (kPa):1.823-1.84No information availableNo information available

Evaporation rate: Vapor density: VOC content (g/L):
No information available

3.4

No information available

Odor threshold (ppm): Partition coefficient Viscosity:
No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Easily soluble in cold water

Sulfuric acid is soluble in water with

liberation of much heat Soluble in Ethanol

10. STABILITY AND REACTIVITY

Reactivity

Reacts violently with water

It reacts with alcohols and amines

Incompatible (can react explosively or dangerously) with the following: ACETIC ACID, ACRYLIC ACID, AMMONIUM HYDROXIDE, CRESOL, CUMENE, DICHLOROETHYL ETHER, ETHYLENE CYANOHYDRIN, ETHYLENEIMINE, NITRIC ACID, 2-NITROPROPANE, PROPYLENE OXIDE, SULFOLANE, VINYLIDENE CHLORIDE, DIETHYLENE GLYCOL MONOMETHYL ETHER, ETHYL ACETATE, ETHYLENE CYANOHYDRIN, ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, GLYOXAL, METHYL ETHYL KETONE, dehydrating agents, organic materials, moisture (water), Acetic anhydride, Acetone, cyanohydrin, Acetone+nitric acid, Acetone + potassium dichromate, Acetonitrile, Acrolein, Acrylonitrile, Acrylonitrile+water, Alcohols + hydrogen peroxide, ally compounds such as Allyl alcohol, and Allyl Chloride, 2-Aminoethanol, Ammonium hydroxide, Ammonium triperchromate, Aniline, Bromate + metals, Bromine pentafluoride, n-Butyraldehyde, Carbides, Cesium acetylene carbide, Chlorates, Cyclopentanone oxime, chlorinates, Chlorates + metals, Chlorine trifluoride, Chlorosulfonic acid, 2-cyano-4-nitrobenzenediazonium hydrogen sulfate, Cuprous nitride, p-chloronitrobenzene, 1,5-Dinitronaphthlene + sulfur, Diisobutylene, p-dimethylaminobenzaldehyde, 1,3-Diazidobenzene, Dimethylbenzylcarbinol + hydrogen peroxide, Epichlorohydrin, Ethyl alcohol + hydrogen peroxide, Ethylene diamine, Ethylene glycol and other glycols, , Ethylenimine, Fulminates, hydrogen peroxide, Hydrochloric acid, Hydrofluoric acid, Iodine heptafluoride, Indane + nitric acid, Iron, Isoprene, Lithium silicide, Mercuric nitride, Mesityl oxide, Mercury nitride, Metals (powdered), Nitromethane, Nitric acid + glycerides, p-Nitrotoluene, Pentasilver trihydroxydiaminophosphate, Perchlorates, Perchloric acid, Permanganates + benzene, 1-Phenyl-2-methylpropyl alcohol + hydrogen peroxide, Phosphorus, Phosphorus isocyanate, Picrates, Potassium tert-butoxide, Potassium chlorate, Potassium Permanganate and other permanganates, halogens, amines, Potassium Permanganate + Potassium chloride, Potassium Permanganate + water, Propiolactone (beta)-, Pyridine, Rubidium aceteylene carbide, Silver permanganate, Sodium, Sodium carbonate, sodium hydroxide, Steel, styrene monomer, toluene + nitric acid, Vinyl acetate, Thalium (I) azidodithiocarbonate, Zinc

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chlorate, Zinc Iodide, azides, carbonates, cyanides, sulfides, sulfites, alkali hydrides, carboxylic acid anhydrides, nitriles, olefinic organics, aqueous acids, cyclopentadiene, cyano-alcohols, metal acetylides

Evolves flammable hydrogen gas on contact with metals

Concentrated sulfuric acid oxidizes, dehydrates, or sulfonates most organic compounds

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials. Exposure to water.

Incompatible Materials: Oxidizing agents

Reducing agents Organic materials Combustible materials

Bases Amines Metals Water Acids

Hazardous decomposition

products:

Sulfur oxides.

Other Information

Corrosivity: Extremely corrosive in presence of aluminum

Extremely corrosive in presence of copper

Extremely corrosive in the presence of stainless steel (316) Highly corrosive in the presence of stainless steel (304)

Minor corrosive effect on bronze Non-corrosive to lead and mild steel

No corrosion data on brass

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Skin. Inhalation. Ingestion.

Acute Toxicity

Component Information

Sulfuric Acid CAS No 7664-93-9

LD50/oral/rat = 2140 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = 347 ppm 1 h

420 ppm 1 h

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510 mg/m³ Inhalation LC50 Rat 2h 85-103 mg/m³ 1 h LC50/inhalation/mouse = 320 mg/m³ 2 h Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

Value - Acute Toxicity = 2140 mg/kg

LD50/oral/mouse =

Value - Acute Tox = No information available

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

VALUE - Acute Tox = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = 347 ppm (1-hr)

VALUE-Dust/Mist = 510 mg/m³ (1-hr)

LC50/Inhalation/mouse

VALUE-Vapor = No information available **VALUE - Gas** = No information available **VALUE - Dust/Mist** = 320 mg/m³ 2 h

Symptoms

Skin Contact: Severe skin irritation. Causes skin burns.

Eye Contact: Severe eye irritation. Causes eye burns.

Inhalation Fatal if inhaled. Causes severe irritation of the respiratory tract and mucous

membranes with sore throat, coughing, sneezing, shortness of breath, and delayed lung edema. Can cause chemical burns (corrosive action) to the repiratory tract and mucous membranes. Inhalation may be fatal as a result of bronchospasm, inflammation, edema of the larynx and bronchi, chemical

pneumonitis, and pulmonary edema. May affect cardiovascular system (hypotension, depressed cardiac output, bradycardia). Circulatory shock/collapse

with clammy skin, weak and rapid pulse, shallow respiration, and scanty urine may follow. Ischemic liver and heart lesions, kidney failure may occur several hours after unchecked circulatory collpase. Circulatory shock is often the immediate cause of death. May also affect teeth(changes in teeth and supporting structures -

erosion, discoloration).

Ingestion May be harmful if swallowed. Causes digestive or gastrointestinal tract burns.

Corrosive to the mouth, throat, and stomach. May cause permanent damage to the digestive tract. May cause perforation of the digestive tract. May cause gastritis. May cause abdominal pain. Ingestion may cause nausea, vomiting.

Vomit may resemble "coffee grounds". May cause metabolic acidosis.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Chronic Toxicity Inhalation: Prolonged or repeated inhalation may affect behavior (muscle

contraction or spasticity), urinary system (kidney damage), and respiratory system/lungs(pulmonary edema, lung damage/changes in lung function with chronic bronchitis and emphysema), teeth (dental discoloration, erosion). Skin: Prolonged or repeated skin contact may cause dermatitis. Eyes: Conjunctivitis is

also a common finding with chronic exposure.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: May cause cancer. However, evidence is inconclusive. Cancer Status: The

International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC Group 1). However, this classification applies only to mists containing sulfuric acid generated during an industrial process and not to (almost) pure sulfuric acid or sulfuric acid solutions; The ACGIH has classified "strong inorganic acid mists containing sulfuric acid" as a suspected human carcinogen (ACGIH Group A2). However, this classification applies only to mists containing sulfuric acid generated during an industrial process and not to (almost) pure sulfuric acid

or sulfuric acid solutions.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sulfuric Acid	7664-93-9	Monograph 54 [1992] occupational	A2 Suspected Human Carcinogen (contained in strong inorganic acid mists)	Not listed	Present	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available

Teratogenic Effects: Developmental effects and Teratogenicity: According the the Registry of Toxic

Effects of Chemical Substances (RTECS reference - Murry et al, "Embryrotoxicity of Inhaled Sulfuric Acid Aerosol in Mice and Rabbits", Journal of Environmental Science and Health, Part C, Vol. 13, pages 251-266, 1979), musculoskeletal developmental abnormalities were found in rabbits at a dose of 20 mg/m³ for 7 hrs. However, REPROTOX and Shepard's Catalog of Teratogenic Agents, citing this same study, stated that inhalation of sulfuric acid fumes did not increase congential anomalies in the offspring of treated preganant mice or rabbits. Furthermore, the Hazard Substance Data Bank (HSDB) also stated that in a developmental toxicity study conducted under a method similar to OECD test

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Guideline 414 that no significant effects on mean numbers of implants/dam, live fetuses/liter or resorptions/litter were observed in mice and rabbits exposed by inhalation to sulfuric acid aerosol at 5 and 20 mg/m³ during gestation and therefore

could not be considered embryotoxic, or fetoxic.

Specific Target Organ Toxicity

No information available. STOT - single exposure STOT - repeated exposure No information available.

Target Organs: Skin. Eyes. Respiratory system. Teeth.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Sulfuric Acid - 7664-93-9

Fish LC50: >500mg/L (96h, Brachydanio rerio) EC50: 29mg/L (24h, Daphnia magna) Crustacea

No information available Persistence and degradability:

Bioaccumulative potential: No information available.

No information available Mobility in soil Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sulfuric Acid	7664-93-9	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN1830 **UN-No:** Sulfuric acid **Proper Shipping Name:**

Hazard Class

No information available **Subsidiary Class**

Packing group: **Emergency Response Guide 137**

Number

Marine Pollutant No data available DOT RQ (lbs): No information available

Special Provisions A3, A7, B3, B83, B84, IB2, N34, T8, TP2

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Symbol(s): [DOT]: (R4) - Identifies a material that is a hazardous substance that has a

reportable quantity (RQ) of 1000 pounds (454 Kilograms).

Description: UN1830, Sulfuric acid, 8, II

TDG (Canada)

UN-No: UN1830 Proper Shipping Name: Sulfuric acid

Hazard Class 8

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant

No Information available
UN1830, Sulfuric acid, 8, II

ADR

UN Number UN1830 Proper Shipping Name: Sulphuric acid

Transport hazard class(es) 8
Packing group | |

Subsidiary Risk: No information available UN1830, Sulphuric acid, 8, II

IMDG

UN-No: UN1830 Proper Shipping Name: Sulfuric acid

Hazard Class:

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A

Description UN1830, Sulphuric acid, 8, II

RID

UN Number UN1830 Proper Shipping Name: Sulphuric acid

Transport hazard class(es) 8
Subsidiary Risk: 8
Packing group ||

Description: UN1830, Sulphuric acid, 8, II

ICAO (air)

UN-No: UN1830 Proper Shipping Name: Sulphuric acid

Hazard Class

Subsidiary Risk: No information available

Packing Group:

Description: UN1830, Sulphuric acid, 8, II

IATA

UN Number UN1830 Sulphuric acid

Transport hazard class(es) 8

Subsidiary Risk: No information available

Packing group II Precautionary Statements - 8L

Response

Special Provisions

No information available
UN1830, Sulphuric acid, 8, II

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15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	1.1.	Japan ENCS	China IECSC	Australia	EINECS-No.
				(PICCS)			(AICS)	
Sulfuric Acid	7664-93-9	PresentACTIV		Present	Present	Present	Present	Present
		E	KE-32570		(1)-430			231-639-5

U.S. Regulations

Sulfuric Acid

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 1761

New Jersey (EHS) List: 1761 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

1000 lb RQ 100 lb RQ

Louisana Reportable Quantity List for Pollutants: 1000lbfinal RQ

454kgfinal RQ

California Directors List of Hazardous Substances: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1095

FDA - 21 CFR - Total Food Additives 172.560, 172.892, 173.385, 176.170, 176.180, 176.210, 177.2800, 178.1010, 179.45,

- **List Sourced from EAFUS** 184.1095, 73.85

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity		Female Reproductive
					Toxicity:
Sulfuric Acid	7664-93-9	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and	Section 302 Extremely Hazardous	Section 302 Extremely Hazardous	Section 313 - Chemical Category	Section 313 - Reporting de minimis
		their Reportable Quantities	Substances and TPQs	Substances and RQs		uc milinis
Sulfuric Acid		1000 lb final RQ 454 kg final RQ	1000 lb EPCRA RQ	None		1.0 % de minimis concentration

U.S. TSCA

Compo	nent		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sulfurio	Acid	7664-93-9	Not Applicable	Not Applicable

Canada

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WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Sulfuric Acid 7664-93-9 (100) WHMIS 2015 Hazard Classification
Corrosive to Metals - Category 1: H290 May be corrosive to
metals. (85% (30.8); potentially corrosive to metals; the supplier
should be contacted for more information); Acute toxicity Inhalation - Category 2: H330 Fatal if inhaled. (85% (30.8)); Acute
toxicity - Inhalation - Category 3: H331 Toxic if inhaled. (50% (14.2
N)); Health Hazard Not Otherwise Classified - Category 1: Causes
severe damage to the respiratory tract (2% (0.4 N)); Skin
corrosion/irritation - Category 1: H314 Causes severe skin burns
and eye damage. (50% (14.2 N)); Skin corrosion/irritation Category 1A: H314 Causes severe skin burns and eye damage.
(2% (0.4 N)); Serious Eye Damage/Eye Irritation - Category 1:
H318 Causes serious eye damage. (2% (0.4 N))

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No		Canada (NDSL)
Sulfuric Acid	7664-93-9	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Sulfuric Acid	7664-93-9	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sulfuric Acid	7664-93-9	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)	
Sulfuric Acid	7664-93-9	Skin corrosion/irritation - Skin Corr.	
		1A: H314 Causes severe skin burns	
		and eye damage.016-020-00-8	
		Skin corrosion/irritation - Skin Corr.	
		1A: H314 Causes severe skin burns	
		and eye damage. (C >= 15 %); Skin	
		corrosion/irritation - Skin Irrit. 2: H315	
		Causes skin irritation. (5 % <= C <15	
		%); Serious Eye Damage/Eye Irritation	
		- Eye Irrit. 2: H319 Causes serious eye	
		irritation. (5 % <= C <15	
		%)016-020-00-8	

EU - CLP (1272/2008)

R-phrase(s)

R35 - Causes severe burns

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S30 - Never add water to this product

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

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S 1/2 - Keep locked up and out of the reach of children.

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Sulfuric Acid	7664-93-9	,	15%<=C C; R35 5%<=C<15% Xi; R36/38	S: (1/2)-26-30-45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

C - Corrosive



16. OTHER INFORMATION

Preparation Date: 2/18/2014 **Revision date** 8/16/2019 Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages. including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: S1736 Product name: SULFURIC ACID,