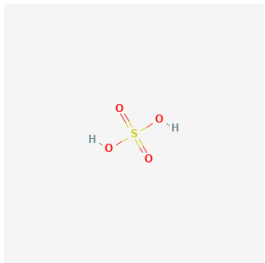


Sulfuric Acid 93% Technical Grade

Technical Grade · 93%

GHS Revision
Rev. 9 (2021)Reviewed
2026-07-17Emergency
Chemtel 1-800-255-3924 (24/7)

CAS number 7664-93-9	UN number UN1830	Hazard class · packing group 8 · PG II
 Structure · PubChem	Grade Technical Grade · 93%	Signal word Danger
Hazards Corrosive Health hazard H290 H314 H350		
Proper shipping name Sulfuric acid with more than 51 percent acid		
Sulfuric Acid 93% Technical Grade is regulated for transport under DOT 49 CFR — see the shipping classification below.		

1 Identification

Product Identifier

Sulfuric Acid 93% Technical Grade

Grade	Technical Grade
Concentration	93%
CAS Number	7664-93-9
Molecular Weight	98.08 g/mol
Manufacturer	Alliance Chemical
	204 South Edmond Street, Taylor, TX 76574
Emergency Phone	Chemtel 1-800-255-3924 (24/7)
Recommended Use	Industrial / laboratory chemical. See Section 7.

2 Hazard Identification



Corrosive



Health hazard

Signal Word

Danger

Hazard Statements

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

H350 May cause cancer

Precautionary Statements

P234 Keep only in original packaging.

P260 Do not breathe dust, fume, gas, mist, vapours or spray.

P264 Wash hands and face thoroughly after handling.

P280 Wear protective gloves, protective clothing, and eye/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P321 Specific treatment (see first-aid information on this label).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

Hazard (H) and precautionary (P) statements and pictograms conform to GHS Rev. 9. The full classification rationale is in the downloadable SDS PDF.

3 Composition / Information on Ingredients

Component	CAS No.	Formula	Concentration
Sulfuric Acid 93% Technical Grade	7664-93-9	—	93% (w/w)

Concentrations are nominal; lot-specific values appear on the Certificate of Analysis. Components not contributing to classification are omitted.

4 First-Aid Measures

Eyes	Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.
Inhalation	Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5 Fire-Fighting Measures

Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray. Use water spray to cool containers.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Protective Equipment	Wear self-contained breathing apparatus and full protective clothing.
Hazardous Combustion Products	May include carbon oxides and other toxic fumes. See Section 10.

6 Accidental Release Measures

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions	Prevent leakage or spillage from entering drains,

Containment & Cleanup

sewers, or waterways.

Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

7 Handling and Storage

Safe Handling

Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.

Keep container closed when not in use.

Safe Storage

Store in a cool, dry, well-ventilated area. Use corrosion-resistant containers. Keep away from incompatible materials (see Section 10). Keep containers tightly closed.

8 Exposure Controls / Personal Protection

Occupational Exposure Limits

Limit	Value
OSHA PEL	1 mg/m ³ TWA
NIOSH REL	1 mg/m ³ TWA
IDLH	15 mg/m ³

Engineering Controls	Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.
Eye/Face Protection	Wear chemical safety goggles or face shield.
Skin Protection	Wear chemical-resistant gloves and protective clothing.
Respiratory Protection	Use a NIOSH-approved air-purifying respirator with cartridges appropriate for the contaminant. For higher exposures or confined spaces, use supplied-air or a powered air-purifying respirator (PAPR).

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

9 Physical & Chemical Properties

Appearance	Oily, clear liquid
Odor	Odorless
Odor Threshold	No data available
pH	1 N solution = 0.3; 0.1 N solution = 1.2; 0.01 N solution = 2.1
Melting Point / Freezing Point	-29.5 °C (-21 °F) freezing point (93% solution)
Boiling Point	276 °C (529 °F) (93% solution)
Flash Point	Not applicable (non-flammable)
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/Lower Flammability or Explosive Limits	No data available
Vapor Pressure	1 mmHg at 294.8 °F (EPA, 1998)
Vapor Density	No data available
Relative Density	1.83 -1.84
Solubility	No data available
Partition Coefficient (n-octanol/water)	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Particle Characteristics	Not applicable

Form	Liquid
Density	1.835 (93% w/w solution, 16 °C)

Values shown reflect product-specific canonical data. Lot-specific ranges may vary; see the Certificate of Analysis for the shipped lot.

10 Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	Strong acids, strong bases, reactive metals, water (for some concentrated forms).
Hazardous Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

11 Toxicological Information

See Section 2 for GHS hazard classification.

Carcinogen Classification

Agency	Status
IARC	Group 1 — carcinogenic to humans (Sulfuric acid; IARC agent: Acid mists, strong inorganic, Vol. 54, 100F).
NTP	Known to be a human carcinogen (Sulfuric acid; NTP listing: Strong Inorganic Acid Mists Containing Sulfuric Acid).
OSHA	No substance-specific standard in 29 CFR 1910 Subpart Z; classified as a carcinogen under the Hazard Communication Standard (29 CFR 1910.1200). See Section 2.

Scope: the IARC and NTP listings apply to strong inorganic acid mists containing sulfuric acid, not to the liquid acid.

12 Ecological Information

Ecotoxicity	Data not available. Avoid release to the environment.
Persistence & Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available

13 Disposal Considerations

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

14 Transport Information

US DOT (49 CFR)

UN Number	UN1830
Proper Shipping Name	Sulfuric acid with more than 51 percent acid
Hazard Class	8
Packing Group	II

IMDG / IATA classifications may differ. Refer to the downloadable SDS PDF for international transport details. Verify current regulations before international shipment.

15 Regulatory Information

Inventory / List	Status
California Proposition 65	Not listed
US EPA TSCA Active Inventory	Listed
EPCRA SARA 313 (TRI)	Listed

16 Other Information

Revision Date	2026-07-17
GHS Format	GHS Rev. 9 (2021), 16-section format per OSHA HCS 2024 (29 CFR 1910.1200).

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of publication. It relates only to the specific product identified and does not relate to its use in combination with other materials. ALLIANCE CHEMICAL MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALLIANCE CHEMICAL DOES NOT ASSUME LIABILITY FOR LOSS, INJURY, DAMAGE, OR EXPENSE ARISING FROM THE HANDLING, STORAGE, USE, OR DISPOSAL OF THIS PRODUCT.

Alliance Chemical, 204 South Edmond Street, Taylor, TX 76574. Published by Alliance Chemical from first-party canonical product data. Our authority is hands-on chemical handling, DOT/GHS-compliant shipping, and government-registered distribution — not bench chemistry. This summary reflects canonical regulatory data on file; refer to the full SDS PDF for the complete regulatory record.