MATERIAL SAFETY DATA SHEET

www.britiscientific.com

1- Chemical Product Information and Company Identification.

Product Name:	: Sulfuric acid, >98% for the determination of Nitrogen.
Synonym:	: Hydrogen Sulfate.
Product code:	: BS15747.
CAS Number:	: 7664-93-9.
Company Name:	: Briti Scientific.
Company Address:	: Plot No:78/B/13, SY-79,Phase-VI, Jeedimetla,Hyderabad-500 055. Telangana, India.

Section 2- Composition / Information on Ingredients.

CAS No.	Chemical Name	Mol. Formula
7664-93-9.	Hydrogen Sulfate.	H_2SO_4

Section 3- Hazards Identification.

Classification

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

Corrosive to metals: Category 1, H290

Skin corrosion: Category 1A, H314

Label Elements

Signal Word

Danger

Hazard Statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.



Precautionary Statements

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/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.

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/doctor.
P390 Absorb spillage to prevent material damage.
P501 Dispose of contents/container to industrial combustion plant.
Hazards not otherwise classified (HNOC)
None

Section 4- First Aid Measures.

General Advice: Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation: If not breathing, give artificial respiration. Call a physician immediately. give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Ingestion: Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.
Most important symptoms and effects: Causes burns by all exposure routes. Product is a corrosive material.
Notes to Physician: Treat symptomatically.

Section 5- Fire Fighting Measures.

Suitable Extinguishing Media: Water spray. Carbon dioxide (CO_2). Dry chemical, resistant foam.
Unsuitable Extinguishing Media: Water jet
Flash Point: No information available.
Method: No information available.
Autoignition Temperature: No information available.
Explosion Limits
Upper No information available.
Lower No information available.
Sensitivity to Mechanical Impact: No information available.
Sensitivity to Static Discharge: No information available.
Specific Hazards Arising from the Chemical: Keep product and empty container away from heat and sources of ignition.
Hazardous Combustion Products: Sulphur oxides (SOx)

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6- Accidental Release Measures.

Personal Precautions: Use personal protective equipment as required. Ensure adequate ventilation. Avoid contact with skin, eyes and inhalation of vapors.

Environmental Precautions: Do not let product enter drains.
Methods for Containment and Clean Up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7- Handling and Storage.

Handling: Use local and general ventilation. Use only in well-ventilated areas. Never add water to this product.
Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8- Exposure Control/Personal Protection.

Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures: Ensure that eyewash stations and safety showers are close to the work station location.
Personal Protective Equipment
Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or EuropeanStandardEN166.
Hand protection: Wear appropriate protective gloves and clothing to prevent skin exposure.
Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9- Physical and Chemical Properties.

Physical State:	Liquid
Appearance:	Colorless.
Odor:	Odorless.
Odor Threshold:	No information available.
pH:	No information available.
Melting Point/Range:	-20 °C.
Boiling Point/Range:	290 °C.
Flash Point:	No data available
Evaporation Rate:	No data available.
Flammability (solid, gas):	Not applicable.
Flammability or explosive limits:	
Upper	No data available.
Lower	No data available.
Vapor Pressure:	No data available.
Vapor Density:	No data available.
Solubility:	Soluble in water.

Partition coefficient; n-octanol/water: No data available.
Autoignition Temperature: No data available
Decomposition Temperature: 338 °C.
Viscosity: No information available.
Molecular Formula: H_2SO_4.
Molecular Weight: 98.07 g/mol.

Section 10- Stability and Reactivity.

Reactive Hazard: None known, based on information available.
Stability: Conditions to avoid.
Conditions to Avoid: No information available.
Incompatible Materials: Bases
Hazardous Decomposition Products: Carbon monoxide (CO), Carbon dioxide (CO_2),
Hazardous Polymerization: Hazardous polymerization does not occur.
Hazardous Reactions: None under normal processing.

Section 11- Toxicological Information.

Acute Toxicity

Product Information: No acute toxicity information is available for this product.
Component Information
Toxicologically Synergistic Products: No information available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Irritation: No information available.
Sensitization: No information available.
Carcinogenicity: No information available.
Mutagenic Effects: No information available.
Reproductive Effects: No information available.
Teratogenicity: No information available.
STOT - single exposure: None known
STOT - repeated exposure: None known
Aspiration hazard: No information available.
Symptoms / effects, both acute and delayed: Causes burns by all exposure routes. Product is a corrosive material.
Other Adverse Effects: The toxicological properties have not been fully investigated.

Section 12- Ecological Information.

Ecotoxicity: No information available.
Persistence and Degradability: No information available.
Bioaccumulation/ Accumulation: No information available.
Mobility: No information available.

Section 13- Disposal Considerations.

Waste Disposal Methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14- Transport Information.

DOT:
UN-No: UN1830
Proper Shipping Name: SULPHURIC ACID
Hazard Class: 8
Packing Group: II
TDG:
UN-No: UN1830
Proper Shipping Name: SULPHURIC ACID
Hazard Class: 8
Packing Group: II
IATA:
UN-No: UN1830
Proper Shipping Name: SULPHURIC ACID
Hazard Class: 8
Packing Group: II
MDG/IMO:
UN-No: UN1830
Proper Shipping Name: SULPHURIC ACID
Hazard Class: 8
Packing Group: II

Section 15- Regulatory Information.

Legend:
TSCA - Toxic Substances Control Act, (40 CFR Part 710).
X - Listed
'-' - Not Listed
TSCA 12(b) - Notices of Export Not applicable.
U.S. Federal Regulations
SARA 313 Not applicable.
SARA 311/312 Hazard Categories See section 2 for more information.
CWA (Clean Water Act) Not applicable.
Clean Air Act Not applicable.
OSHA - Occupational Safety and Health Administration: Not applicable.
CERCLA: Not applicable.
California Proposition 65: This product does not contain any Proposition 65 chemicals.

Section 16- Other Information.

Briti Scientific provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

Briti Scientific®