榮潤科技有限公司
LongRun Technology CO., LTD

# Safety Data Sheet (SDS)

## Sulfuric Acid 60%

### 1. Identification

Product Name: Sulfuric Acid

Chemical Name: Sulfuric Acid

Chemical Formula: H2SO4

CAS Number: 7664-93-9

Recommended Use: Chemical manufacturing, metal processing, fertilizer production, battery electrolyte, laboratory reagent.

Supplier: LongRun Technology Co.,Ltd.

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### 2. Hazard(s) Identification

Pictogram

GHS Classification:

Skin Corrosion – Category 1A

Serious Eye Damage – Category 1

Corrosive to Metals – Category 1

Signal Word: Danger

Hazard Statements:

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

Precautionary Statements:

P260: Do not breathe mist or vapors.

P264: Wash 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: Remove contaminated clothing and Rinse skin with water/shower for at least 15 minutes..

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Immediately call a POISON CENTER or doctor.

## 3. Composition / Information on Ingredients

Substance: Sulfuric Acid

CAS Number: 7664-93-9

Concentration: Sulfuric Acid 60%;Water:40%

## 4. First-Aid Measures

Inhalation: Move the exposed person to fresh air immediately. Seek medical attention if symptoms persist.

Skin Contact: Remove contaminated clothing immediately. Rinse skin with plenty of water for at least 15 minutes.

Eye Contact: Rinse cautiously with water for at least 15 minutes while holding eyelids open. Seek immediate medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

## 5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, foam.

Specific Hazards: Substance is not combustible but may react with metals to release hydrogen gas.

Hazardous Combustion Products: Sulfur oxides.

Protective Equipment: Firefighters should wear self-contained breathing apparatus and protective clothing.

## 6. Accidental Release Measures

Personal Precautions: Wear appropriate protective equipment and avoid contact with skin and eyes.

Environmental Precautions: Prevent entry into drains, soil, and waterways.

Containment and Cleanup: Neutralize with sodium carbonate, lime, or suitable alkaline material and absorb with inert material.

## 7. Handling and Storage

Handling: Use only in well-ventilated areas. Avoid inhalation of vapors or mists.

Storage: Store in tightly closed corrosion-resistant containers. Keep away from incompatible materials such as bases and metals.

## 8. Exposure Controls / Personal Protection

Exposure Limits:

OSHA PEL: 1 mg/m3 (TWA)

According to local regulations (e.g., Thailand Department of Industrial Works)

Engineering Controls:

Use local exhaust ventilation.

Personal Protective Equipment:

Eye Protection: Chemical safety goggles or face shield

Skin Protection: Acid-resistant gloves and protective clothing

Respiratory Protection: Use respirator if ventilation is inadequate

## 9. Physical and Chemical Properties

Appearance: Colorless to slightly yellow liquid

Odor: Odorless

pH: <1 (for diluted solution)

Decomposition Temperature: 337°C

Boiling Point: Approx. 120–150°C (depending on concentration)

Density: 1.50g/$cm^3$ (20 °C)

Solubility: Completely miscible with water (highly exothermic)

## 10. Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Avoid adding water directly to concentrated acid (risk of exothermic reaction), Always add acid to water, never water to acid.

Incompatible Materials: Bases, metals, organic materials, oxidizers.

Hazardous Decomposition Products: Sulfur oxides.

## 11. Toxicological Information

Likely Routes of Exposure: Skin contact, eye contact, inhalation.

Effects:

Severe skin burns

Serious eye damage

Respiratory tract irritation

Chronic exposure to mist may cause dental erosion and lung irritation.

## 12. Ecological Information

Ecotoxicity: Harmful to aquatic life due to acidity.

Persistence and Degradability: Not biodegradable; dissociates in water.

Mobility: Highly mobile in aqueous environments.

## 13. Disposal Considerations

Waste Disposal: Dispose according to local, regional, and national regulations.

Neutralization before disposal is recommended when permitted.

## 14. Transport Information

UN Number: UN 1830

Proper Shipping Name: SULPHURIC ACID with more than 51% acid

Hazard Class: 8 (Corrosive)

Packing Group: II

## 15. Regulatory Information

This product is classified according to the Globally Harmonized System (GHS).

Users must comply with local chemical safety regulations.

## 16. Other Information

This SDS is prepared for industrial use and should be adapted to local regulatory requirements

Users should adapt the document to their specific product concentration and regulatory requirements.