

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: TRANSENE COMPANY, INC.
ADDRESS: DANVERS INDUSTRIAL PARK
10 ELECTRONICS AVENUE DANVERS, MA 01923
TEL: (978) 777-7860 FAX: (978)-739-5640
WWW.TRANSENE.COM
EMERGENCY NO. 1-800-424-9300 CHEMTREC

MATERIAL NAME: **SULFURIC ACID 90-98%**

REVISED: June 2022

CHEMICAL FAMILY: Aqueous Acid Solution

SYNONYMS: Sulphuric Acid

Product Number: 060-SULFURIC

SECTION 2. HEALTH HAZARD INFORMATION

GHS Classifications

H290 Corrosive to Metals: Category 1

H300 Acute toxicity Oral : Category 1

H330 Acute toxicity Inhalation : Category 2

H314 Skin corrosion / Skin irritation : Category 1B

H318 Serious eye damage / Eye irritation : Category 1

H371 Special target organ systemic toxicity single exposure: Category 2

Pictograms or Hazard symbols



Signal Word: Danger

May be corrosive to metals

Fatal if swallowed. Toxic if inhaled.

Causes severe skin burns and eye damage. Causes serious eye damage.

May cause damage to organs.

Precautionary Statements

P234 Keep only in original container.

P260 Do not breathe fume/gas/mist/vapors.

P264 Wash thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

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

P284 In case of inadequate ventilation, wear respiratory protection.

P301 + P310 If swallowed, immediately call a physician.

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.

P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes
 P308 + P311 If exposed or concerned, call a physician.
 P310 Seek medical assistance if exposed.
 P330 Rinse mouth.
 P363 Wash contaminated clothing before reuse.
 P390 Absorb spillage to prevent material damage.
 P405 Store locked up.
 P406 Store in corrosive resistant container.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

Material		Wt %
Sulfuric Acid	CAS# 7664-93-9	90-98
Water	CAS# 7732-18-5	2-10
Total		100

SECTION 4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

FIRST AID:

Eye Contact: Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage or blindness. Seek medical attention.

Skin Contact: Obtain medical attention: Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing, get medical attention. May cause deep, penetrating burns.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of vapors may cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.

Ingestion: Will cause severe burns to the mouth and severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately. Do not induce vomiting; give large quantities of water.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	<u>LOWER</u>	<u>UPPER</u>
non-flammable	NA		NA	NA

Extinguishing media: Dry chemical, foam or carbon dioxide. Do not use water on material. Water spray may be used to keep fire exposed containers cool.

Special fire fighting procedures: Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes. Extreme heat or contact with metals can release flammable hydrogen gas.

Concentrated material is strong dehydrating agent. Reacts with organic materials and may cause ignition of inely divided materials on contact. Contact with most metals causes formation of flammable and explosive hydrogen gas.

Toxic gases released: Sulfurous oxides

SECTION 6. ACCIDENTAL RELEASE MEASURES

Incompatible with:

Most common metals, strong bases, metal oxides, amines, hydroxides, cyanides, sulfides, sulfites, formaldehyde, and carbonates.

Hazardous decomposition products: Hydrogen chloride fumes, hydrogen gas

Hazardous	May occur	Conditions to avoid: Excess heat, direct sunlight.
polymerization:	Will not occur	X

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE:

Oral, rat LD₅₀: 2140 mg/kg

Inhalation, rat LD₅₀: 510 mg/m³/2H

Standard Draize, eye, rabbit: 250 micrograms (severe)

Oral rabbit LD₅₀: 1350 mg/kg

Investigated as a tumorigen, mutagen, reproductive efector

Carcinogenicity: NTP: No IARC: No Z List: No OSHA reg: No

IARC has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen (IARC Registry 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.

OTHER DATA:

Strongly corrosive. Vapor inhalation burns mucous membranes; causes coughing, dyspnoea.

SECTION 12. ECOLOGICAL INFORMATION

Bioaccumulation : When released into the soil, this material may leach into groundwater. When released into the air, this material may be removed fro the atmosphere to a moderate extent by wet deposition. When released into the air, this material may be removed from the atmosphere to a moderate extent by dry deposition.

Environmental Toxicity:

LC₅₀ (flounder): 100-330 mg/L/48 hr aerated water

LC₅₀ (shrimp): 80-90 mg/L/48 hr aerated water

LC₅₀ (prawn): 42.5 ppm/48 hr salt water

This material may be toxic to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

SECTION 14. TRANSPORTATION INFORMATION

Class 8

PG II

UN1830

Shipping Name: Sulfuric Acid

SECTION 15. REGULATORY

Symbol: C, Corrosive

R-Phrase: 35, causes severe burns

S-Phrases: 23-36/37/39-45 Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 16. OTHER INFORMATION

NFPA Codes:

Health: 3

Flammability: 0

Reactivity: 2

R35: Causes severe burns.

Ingredients are TSCA listed.