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# SAFTY DATA SHEET

# SULPHURIC ACID

#### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

PRODUCT NAME SULPHURIC ACID CHEMICAL NAME SULPHURIC ACID

USE Fertilisers, explosives, battery acid, electroplating, dyes drugs,

detergents, adhesives, plastics, paints, tanning, food processing,

Industrial Chemical.

#### 2. HAZARD IDENTIFICATION

Classification according to Directive 67/548/EEC (DSD)

C; R35 CAUSES SEVERE BURNS

**GHS PICTOGRAME** 

TE

SIGNAL WORD DANGER!

HAZARD STATEMENTS H314 – Causes severe skin burns and eye damage

H290 MAY BE CORROSIVE TO METALS

H314 CAUSERE SKIN BURNS AND EYE DAMAGE

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS NO.	EC NO.	Weight
H <sub>2</sub> SO <sub>4</sub>	7664-93-9	231-639-5	95-97.0%
Water	-	-	5.0-3.0%

# 4. FIRST AID MEASURES

Eye Contact Immediately irrigate with copious quantity of water for at least 15 minutes.

Eyelids to be held open. Seek immediate medical assistance.

Skin Contact Wash affected areas with copious quantity of water immediately.

Remove contaminated clothing and wash before reuse. Treat skin and clothing

with 1% sodium bicarbonate solution to neutralize acid residues.

If irritation occurs seek medical advice.

Inhalation Remove victim from exposure- avoid becoming a casualty.

Ingestion Rinse mouth thoroughly with water immediately. Give water to drink.

DO NOT induce vomiting. Seek immediate medical assistance.

#### 5. FIRE FIGHTING MEASURES

Flash Point Not application
Autoignition Temperature Not application

Extinguishing Media CO2, dry powder and foam.

Special Exposure Hazards When heated to decomposition it emits toxic fumes of Sox

Special Protective Equipment Incipient fire responders should wear Self-Contained Breathing

Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other

environmentally sensitive areas.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precaution Evacuate personal to safe areas. Do not breathe vapors or spray mist.

Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shur off leaks if without risk. Keep

people away from and upwind of spill/leak

Spill Procedures Spillage: May react with combustible substances creating fire or

explosion hazard and formation of toxic fumes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Soak up with inert absorbent material (e.g. sand, silica gel). Prevent liquid entering sewers, basements and workpits; vapor may create explosive atmosphere. Transfer to covered steel drums.

Dispose of promptly.

# 7. HANDLING AND STORAGE

Handing Provision of good ventilation in the working area. The floor must be

acid resistant. Suitable materials: generally resistant: Glass, Enamel.

At lower temperature: Polyethylene PE, Polyvinyl chloride, Polypropylene PP. At different concentrations and range of temperatures the resistance of metals may vary greatly. Before choosing materials of construction obtain specialized

information.

Unsuitable materials: non-noble metals. Do not leave container open. Avoid

any contact when handling the substance.

Keep tightly closed at room temperature in a dry, cool and well-ventilated place. Keep out of direct sunlight and away from heat, water and incompatible materials. Requirement for containers, no metal containers.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Explosive Limits of Dust in Air OEL 1 mg/m<sup>3</sup>

TWA  $1 \text{ mg/m}^3$ 

Eye Protection Wear safety glasses or goggles.

Hand Protection Protect gloves.

Skin Protection Chemical resistant apron / corrosive protective clothing

Respiratory Protection Goggles or faceshields as appropriate.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear Liquid.
Odour Odorless

pH Not applicable
Specific Gravity 1.83 g/cm<sup>3</sup>
Melting Point -20 °C
Boiling Point 330 °C

Vapor or Pressure 1 mm Hg at 145.8 °C

Solubility in water Soluble

#### 10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions of handling.

Conditions to avoid Strong heating.

Materials to avoid Alkali metals, alkali compounds, ammonia, alkaline earth metals,

alkaline earth compounds, alkalis, acid, metal, metal alloys,

combustible substances, organic solvent, halogenates, permanganate.

Metals (generation of Sulfur oxide and Hydrogen).

Hazardous decomposition product Sulfur oxide. Hydrogen (Hazardous decomposition products

from under contact with metals, danger of explosion).

#### 11. TOXICOLOGICAL INFORMATION

Oral, rat : LD50 (mg/kg) 2,140 mg/kg Inhale, rat, 2hr : LC50 510 mg/m $^3$ 

#### 12. ECOLOGICAL INFORMATION

Daphnia Toxicity; Daphnia magna EC50 : 29 mg/l / 24hr.

(calculated on the pure substance)

# 13. DISPOSAL CONSIDERATIONS

Disposal of waste method Dispose in accordance with lacal regulations.

Contaminated Packing Disposal in compliance with official regulations. Handle

contaminated packing as hazardous waste in the same way of the substance itself. If not officially specified differently, noncontaminated packing may be treated like household waste or

recycled.

# 14. TRANSPORT INFORMATION

HAZARD LABLE



EC NO 1830

SHIPPING NAME SULPHURIC ACID

ADR/RID/ADNR/IMO-IMDG CLASS 8

PACKAGING GROUP 11

#### 15. REGULATORY INFORMATION

European/International Regulation

European labeling in Accordance with EC Directives

Hazard Symbols:

C

Risk Phrases:

R 35 Causes severe burns.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 30 Never add water to this product.

#### 16. OTHER INFORMATION

Hazard Rating System

NFPA Rating HEALTH 3, FLAMMABILITY 0, REACTIVITY 2