

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Sulphuric Acid 98%
Cat No.	ACID41
CAS-No.	7664-93-9
M.W.	98.07
EC-No.	231-639-5
Company	High Purity Laboratory Chemicals Pvt. Ltd.
Address	Plot No. 1902, Fansa Road, G.I.D.C., Sarigam – 396 155, DIST. Valsad, Gujarat (INDIA)
Email	customercare@hplcindia.com

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	7664-93-9
Percent	~ 98.0%
Substance/Mixture	Substance
Synonym	-
Chemical Formula	H ₂ SO ₄

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Corrosive to metals (Category 1)
 Skin corrosion (Category 1A)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word

Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

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

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Sulphur oxides
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep insuitable

containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance A clear colourless liquid.

Odour Odorless

Odour Threshold no data available

pH no data available

Melting/freezing point 10.31 °C

Boiling point/range 290°C

Flash point no data available

Evaporation rate no data available

Vapour pressure 1.33 hPa at 145.8 °C

Vapour density 3.39 - (Air = 1.0)

Relative density ~ 1.835g

Water solubility Soluble

LogPow no data available

Auto-ignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties no data available

Oxidizing properties, no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability Stable under recommended storage conditions.

Incompatibilities Bases, Halides, Organic materials, Carbides, fulminates, Nitrates, picrates, Cyanides, Chlorates, alkali halides, Zinc salts, permanganates, e.g. potassium permanganate, Hydrogen peroxide, Azides, Perchlorates, Nitromethane, phosphorous, Reacts violently with: cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(III) oxide, Powdered metals.

Hazardous decomposition products no data available

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation Skin - rabbit Result: Extremely corrosive and destructive to tissue.

Serious eye damage/irritation Eyes - Rabbit Result: Corrosive to eyes

Respiratory/skin sensitization no data available

Germ cell mutagenicity no data available

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity no data available

Specific target organ toxicity Single exposure : no data available

Specific target organ toxicity Repeated exposure: no data available

Aspiration hazard no data available

RTECS no data available



SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish

LC50 - Gambusia affinis (Mosquito fish) - 42 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 29 mg/l - 24 h

Persistence/degradation

The methods for determining the biological degradability are not applicable to inorganic substances.

Environmental

no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number

1830

Proper shipping name

SULPHURIC ACID

Hazard class

8

Packaging group

II

Marine pollutant

No

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture :no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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