MATERIAL SAFETY DATA SHEET

MATERIAL IDENTIFICATION

Technical Name

Sulphuric Acid (98%)

Synonyms

Oil of vitrial, fertiliser acid, battery acid, chamber acid.

Chemical Formula

H,SO,

Chemical Classification

Inorganic Acid moe pour sussit pour Join

Hazard Class

Corrosive - 8

CAS Registry No. italigneny?

UN No.

Haz Chem Code

Hazardous Waste ID No.

7664-93-9

1830

2p

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Product Use: Manufacture of chemicals, fertilisers, fibre paints, pigments etc., used in lead / acid batteries, as drying agent and laboratory reagent.

HAZARDOUS INGREDIENTS

Hazardous Ingredient

Concentration

CAS/UN NO

LC 50

LD 50

Sulphuric Acid

98%

PHYSICAL AND CHEMICAL PROPERTIES and political

State

Colour

Odour

Oily liquid

Colourless

Water solubility

Isaogah etan V

98.08

Specific gravity 1.84 at 20°C

Dilutable

pH

Odourless

Vapour pressure

Molecular weight

0.1 mm Hg

Vapour density

Freezing Point

3°C

Melting Point

3°C

Boiling Point 338°C

Others

MERGENCY LERST

FIRE / EXPLOSION HAZARD DATA

Flammability Non Flammable **TDG Flammability**

nert Atmosphere

Flash Point

N.A.

Auto ignition temperature

NA

Explosive range and about vic N.A.

N.A.

Hazardous combustion products

Oxides of sulphur, H,S

Sensitivity to chemical impact

Stable

Sensitivity to static discharge

Stable ITAMPOPHI JAHOITIGE

REACTIVITY DATA

Chemical Stability

Incompatibility THE TO A TUMA W

Stable

Alkalies, water, organic materials, nitrates, carbides,

Reactivity

Dangerous reaction products ASA - AGMODOA

Vigonorous reaction with water. Reacts violently with alkalines, combustibles, reducing agents.

Hydrogen, toxic fumes of acid.

Stronger Oxidiser.

Explosive reaction with acetic acid, acetone, acetonitrite.

HEALTH HAZARD DATA

Route of entry

Skin Contact, Ingestion, inhalation.

Permissible limits

TLV=1Mg/M³ $STEL = 5 mg/M^3$ Lethal dose

LD50 (Rat) - 2140mg/kg $IDLH = 80 \text{ mg/M}^3$

Effects on Chronic exposure

Effects on acute exposure

Severe acid burns, corrosive, Sore throat, scar, burns. Damage to upper respiratory tract, lung tissue, lung edma. Dermatitis, distruction of respiratory trac and

lung tissue.

Sensitization to Material

Stable

Synergistic materials

Data no available.

PREVENTIVE MEASURES

Storage requirement:

Bulk Storage

Mild Steel Tanks

Small Quantities: Carboys.

Handling Methods

Pumping

Engineering Controls

Dike wall around storage tanks Adequate transfer facility from

one tank to other.

Personal protective equipment

Face shield. Protective clothing, hand gloves

and gum boot.

Leak, spill handling

Contain leak preventing enter into drains, water course. Do not our water on large spills, dilute spills by allowing acid to mix in water. Washings should be neutralised before disposal.

Waste disposal

Special shipping information

Dilution and neutralisation

for disposal.

Grades of Purity Storage Temp. Inert Atmosphere : Technical 98% Ambient : Not required

Venting : Open

EMERGENCY / FIRST - AID MEASURES

Fire extinguishment

Not flammable

Special procedure

Antidotes

First - Aid

Skin - Remove contaminated clothing wash effected area with running water preferably under drench shower

Ingestion: Large intake of water.

Do not induce vomiting.

ADDITIONAL INFORMATION

First Aid: No neutralising agent is used on skin. It will

agrivate the injury.

MANUFACTURER / SUPPLIER / CONSUMER DATA

THE ANDHRA SUGARS LIMITED

Chemical & Fertilisers Division SAGGONDA - 534 318, A.P.

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KOVVUR

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