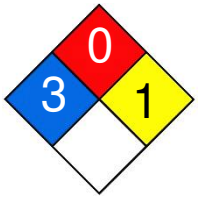
Material Safety Data Sheets



Revision 3

1. IDENTIFICATION

Product Name	**Mercury (II) sulfate**
Other Names	MERCURIC SULFATE; Mercury sulphate
Uses	No Data Available
Chemical Family	No Data Available
Chemical Formula	$HgSO_4$
Chemical Name	No Data Available
Product Description	No Data Available
Company	**Arman sina.co**
Contact Information	info@armansina.com **www.armansina.com**

2. HAZARD IDENTIFICATION

Hazard Categories

Acute toxicity, Category 2, Oral
Acute toxicity, Category 2, Inhalation
Acute toxicity, Category 1, Dermal
Specific target organ toxicity - repeated exposure, Category 2

Signal Word

Danger

Hazard Statements

Fatal if swallowed, in contact with skin or if inhaled May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.

Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor.
IF ON SKIN: Gently wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Immediately call a POISON CENTER/doctor.
Rinse mouth.
Remove/Take off immediately all contaminated clothing.
Wash contaminated clothing before reuse.

Storage

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal

Dispose of contents/ container to an approved waste disposal plant.

Symbol

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Mercury (II) sulfate	$HgSO_4$	7783-35-9	>=90.00 - <=100.00 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.

Eye In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protect unharmed eye.

Skin Wash off immediately with plenty of water. Consult a physician.

Inhaled If breathed in, move person into fresh air. Call a physician immediately.

Advice to Doctor Consult a doctor in case of discomfort showing the SDS for the product.

5. FIRE FIGHTING MEASURES

General Measures No Data Available

Flammability Conditions No Data Available

Extinguishing Media Suitable extinguishing media : Water spray jet Dry powder Carbon dioxide (CO2) Foam

Fire and Explosion Hazard No Data Available

Hazardous Products of Combustion The product itself does not burn. In case of fire hazardous decomposition products may be produced such as: Toxic gases/vapours Sulphur oxides

Special Fire Fighting Instructions No Data Available

Personal Protective Equipment No Data Available

Flash Point No Data Available

Lower Explosion Limit No Data Available

Upper Explosion Limit No Data Available

Auto Ignition Temperature No Data Available

Hazchem Code No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	No Data Available
Clean Up Procedures	Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.
Containment	No Data Available
Decontamination	No Data Available
Environmental Precautionary Measures	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Clean contaminated floors and objects thoroughly while observing environmental regulations. If the product contaminates rivers and lakes or drains inform respective authorities.
Evacuation Criteria	No Data Available
Personal Precautionary Measures.	Isolate the affected area. Confine entry into the affected area to those persons properly protected (see Section 8 of MSDS). Wear personal protective equipment. Unprotected persons must be kept away.

7. HANDLING AND STORAGE

Handling	Avoid exposure - obtain special instructions before use. Perform filling operations only at stations with exhaust ventilation facilities. Wear personal protective equipment. Never return unused material to storage receptacle. Protect from contamination. Keep limited supplies at workplace.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only.
Container	Keep containers tightly closed

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid exposure - obtain special instructions before use. When using do not eat, drink or smoke. Do not breathe vapour. Do not get in eyes, on skin, or on clothing.
Exposure Limits	No Data Available
Biological Limits	No Data Available
Engineering Measures	Use product only in closed system
Personal Protection Equipment	Eye protection : Safety goggles Hand protection : Wear nitrile rubber gloves to avoid contact with the skin. Gloves must be inspected prior to use. Replace when worn. Skin and body protection : Complete suit protecting against chemicals Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Special Hazards Precaustions	No Data Available
Work Hygienic Practices	Keep working clothes separately. Separate rooms are required for washing, showering and changing clothes. When using, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Written instructions for handling must be available at the work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Solid
Odour	no data available
Colour	white
pH	Note: acidic, (as a dispersion)
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	Note: Not applicable, Decomposes before melting
Freezing Point	No Data Available
Solubility	Note: Decomposes in contact with water
Specific Gravity	No Data Available
Flash Point	No Data Available
Auto Ignition Temp	No information available.
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	450 °C Note: Decomposes before melting., Stable at ambient temperature.
Density	7.56 g/cm3 at 20 °C
Specific Heat	No Data Available
Molecular Weight	296.65 g/mol
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	No Data Available
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	No information available.
Reactions That Release Gases or Vapours	No information available.
Release of Invisible Flammable Vapours and Gases	No information available. No information available.

10. STABILITY AND REACTIVITY

General Information	Product is sensitive to light and moisture.
Chemical Stability	The product is chemically stable under standard ambient conditions (See Section 7).
Conditions to Avoid	Protect against water. Protect from contamination. Exposure to light. Corrodes metals in the presence of water or moisture.
Materials to Avoid	Reactions with metals in powder form. Acetylene
Hazardous Decomposition Products	Toxic metal compounds ; Toxic gases/vapours
Hazardous Polymerisation	No data available

11. TOXICOLOGICAL INFORMATION

General Information	No Data Available
Acute	No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic to aquatic organisms, may cause long-term adverse
Persistence/Degradability	No Data Available
Mobility	No Data Available
Environmental Fate	No Data Available
Bioaccumulation Potential	No Data Available
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Observe all Federal, State, and Local Environmental regulations.

Special Precautions for Land Fill No Data Available

14. TRANSPORT INFORMATION

Land Transport

Proper Shipping Name	Mercury (II) sulfate
Class	6.1
Subsidiary Risk(s)	No Data Available
EPG	No Data Available
UN Number	UN 1645
Hazchem	No Data Available
Pack Group	II
Special Provision	No Data Available

Sea Transport

Proper Shipping Name	Mercury (II) sulfate
Class	6.1
Subsidiary Risk(s)	No Data Available
UN Number	UN 1645
Hazchem	No Data Available
Pack Group	II
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	yes

Air Transport

Proper Shipping Name	Mercury (II) sulfate
Class	6.1
Subsidiary Risk(s)	No Data Available
UN Number	UN 1645
Hazchem	No Data Available
Pack Group	II
Special Provision	No Data Available

15. OTHER INFORMATION

Revision 3

Key/Legend

< Less Than
> Greater Than
atm Atmosphere
CAS Chemical Abstracts Service (Registry Number)
cm² Square Centimetres
CO2 Carbon Dioxide
COD Chemical Oxygen Demand
deg C (° C) Degrees Celcius
deg F (° F) Degrees Farenheit
g Grams
g/cm³ Grams per Cubic Centimetre
g/l Grams per Litre
HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
immiscible Liquids are insoluable in each other.
inHg Inch of Mercury
inH2O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilograms per Cubic Metre
lb Pound
LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
ltr or L Litre
m³ Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m³ Milligrams per Cubic Metre
Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm Millimetre
mmH2O Millimetres of Water
mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Heath and Safety Commission
OECD Organisation for Economic Co-operation and Development
Oz Ounce
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
ppm Parts per Million
ppm/2h Parts per Million per 2 Hours
ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value
tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight