

Material Safety Data Sheets

1. IDENTIFICATION

Product Name	Mercury(II) oxide
Other Names	MERCURIC OXIDE; Mercuric oxide, red
Uses	No Data Available
Chemical Family	No Data Available
Chemical Formula	HgO
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	<p>Prevention</p> <p>Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.</p> <p>Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Use only outdoors or in a well-ventilated area.</p> <p>Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Wear respiratory protection.</p> <p>Response</p> <p>IF SWALLOWED: Immediately call a POISON CENTER/doctor.</p> <p>IF ON SKIN: Gently wash with plenty of soap and water.</p> <p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>Immediately call a POISON CENTER/doctor.</p> <p>Rinse mouth.</p> <p>Remove/Take off immediately all contaminated clothing.</p> <p>Wash contaminated clothing before reuse.</p> <p>Storage</p> <p>Store in a well-ventilated place. Keep container tightly closed.</p> <p>Store locked up.</p> <p>Disposal</p> <p>Dispose of contents/ container to an approved waste disposal plant.</p>

Symbol



3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Mercury(II) oxide	HgO	21908-53-2	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	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Call a physician immediately.
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	Use mechanical handling equipment. Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations. Dispose of in accordance with local regulations.
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	Wear personal protective equipment. Use only in well-ventilated areas. Avoid exposure - obtain special instructions before use. Never return unused material to storage receptacle. Protect from contamination. Do not breathe dust. Do not get in eyes, on skin, or on clothing.
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 Precautions	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	No Data Available
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	> 400 °C Note: Decomposition
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	> 400 °C
Density	No Data Available
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.

10. STABILITY AND REACTIVITY

General Information	No data available
Chemical Stability	The product is chemically stable under standard ambient conditions (See Section 7).
Conditions to Avoid	To avoid thermal decomposition, do not overheat.
Materials to Avoid	Hazardous reactions with: Alcohols Nitrates Halogens Hydrazine Hydrogen peroxide Nitric acid Light metals Reducing agents
Hazardous Decomposition Products	Toxic metal compounds
Hazardous Polymerisation	No data available

11. TOXICOLOGICAL INFORMATION

General Information	No Data Available
Acute	No Data Available
Acute oral toxicity	: LD50: 18 mg/kg
Acute inhalation toxicity	: LC50: 0.051 mg/l , dust/mist
Acute dermal toxicity	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Skin irritation	: Note: no data available
Eye irritation	: Note: no data available
Sensitisation	: Note: no data available
Repeated dose toxicity	: Note: Classification based on Annex VI of regulation 1272/2008/EC.
Genotoxicity in vitro	: Test substance: 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) oxide
Class	6.1
Subsidiary Risk(s)	No Data Available
EPG	No Data Available
UN Number	UN 1641
Hazchem	No Data Available
Pack Group	II
Special Provision	No Data Available

Sea Transport

Proper Shipping Name	Mercury (II) oxide
Class	6.1
Subsidiary Risk(s)	No Data Available
UN Number	UN 1641
Hazchem	No Data Available
Pack Group	II
Special Provision	No Data Available
EMS	No Data Available

Marine Pollutant	yes
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Air Transport

Proper Shipping Name	Mercury (II) oxide
Class	6.1
Subsidiary Risk(s)	No Data Available
UN Number	UN 1641
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 Health 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