



Material Safety Data Sheets

1. IDENTIFICATION

Product Name Mercury (II) iodide red

Other Names MERCURIC IODIDE; Mercury diiodide; Mercury (II) iodide

Uses No Data Available
Chemical Family No Data Available

Chemical Formula Hgl2

Chemical NameNo Data AvailableProduct DescriptionNo Data Available

Contact Information <u>info@armansina.com</u>

www.armansina.com

Arman sina.co

2. HAZARD IDENTIFICATION

Company

Hazard Categories Acute toxicity, Oral (Category 2), H300

Acute toxicity, Inhalation (Category 2), H330 Acute toxicity, Dermal (Category 1), H310

Specific target organ toxicity - repeated exposure (Category 2), Kidney, H373

Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

Signal Word Danger

Hazard Statements H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled.

H373 May cause damage to organs (Kidney) through prolonged or

repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements Prevention

P260 Do not breathe dust.

P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing.

Response

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Rinse mouth.

P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a

POISON CENTER/ doctor.

for breathing. Immediately call a POISON CENTER/ doctor.

P314 Get medical advice/ attention if you feel unwell.

P361 + P364 Take off immediately all contaminated clothing and wash it

before reuse.

P391 Collect spillage.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501

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) iodide red | HgI2 | 7774-29-0 | <= 100 % |

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical

care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer

activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

Eye After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

Skin In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

Inhaled After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary

also oxygen.

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

5. FIRE FIGHTING MEASURES

General Measures Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating

surface water or the ground water system

Flammability Conditions No Data Available

Fire and Explosion Hazard No Data Available

Hazardous Products of

Combustion

Hydrogen iodide; Mercury/mercury oxides. Not combustible. Avoid shock and friction. Fire may cause evolution of:

mercury vapours, iodine, hydrogen iodide Ambient fire may liberate hazardous vapours.

Special Fire Fighting Instructions Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by

wearing suitable protective clothing.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully.

Dispose of properly. Clean up affected area. Avoid generation of dusts.

Containment No Data Available

Decontamination No Data Available

Environmental Precautionary

Measures

Do not let product enter drains.

Evacuation Criteria No Data Available

Personal Precautionary Measures. Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact.

Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal

protection see section 8.

7. HANDLING AND STORAGE

Handling Work under hood. Do not inhale substance/mixture.

Protected from light. Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to Storage

qualified or authorized persons. Recommended storage temperature see product label.

Container Keep containers tightly closed

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General

Engineering Measures

Exposure Limits No Data Available

No Data Available **Biological Limits**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Eye/face protection Use equipment for eye protection tested and approved under appropriate **Personal Protection Equipment**

> Minimum layer thickness: 0.11 mm Material: Nitrile rubber Skin protection

Body Protection protective clothing

> Respiratory protection Recommended Filter type: Filter type P3

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

required when dusts are generated.

No Data Available **Special Hazards Precaustions**

Work Hygienic Practices Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance Solid

Odour no data available

Colour red

pH No Data Available

Vapour Pressure No Data Available

Relative Vapour Density No Data Available

Boiling Point 354 °C 669 °F at 1,013 hPa

Melting Point259 °C (498 °F)Freezing PointNo Data Available

Solubility Note: Decomposes in contact with water

Specific GravityNo Data AvailableFlash PointNo Data AvailableAuto Ignition TempNo information available.

Evaporation RateNo Data AvailableBulk Density~1350kg/ m3Corrosion RateNo Data Available

Decomposition Temperature > 400 °C

Density 6.360 g/cm3 at 20 °C (68 °F)

Specific Heat No Data Available **Molecular Weight** 454.40 g/mol No Data Available **Net Propellant Weight Octanol Water Coefficient** No Data Available **Particle Size** No Data Available No Data Available **Partition Coefficient** Saturated Vapour Concentration No Data Available No Data Available **Vapour Temperature** No Data Available **Viscosity Volatile Percent** No Data Available

Additional Characteristics

No information available.

Potential for Dust Explosion

No Data Available

Fast or Intensely Burning

No information available.

Fast or Intensely Burning Characteristics

VOC Volume

Flame Propagation or Burning

Rate of Solid Materials

No information available.

No Data Available

Non-Flammables That Could No information available.

Contribute Unusual Hazards to a

Fire

Properties That May Initiate or

Contribute to Fire Intensity

No information available.

Reactions That Release Gases or No information available. Vapours

Release of Invisible Flammable No information available.

Vapours and Gases No information available.

10. STABILITY AND REACTIVITY

General Information Possibility of hazardous reactions Risk of explosion with: Alkali metals Risk of ignition or formation of inflammable gases or

vapours with: halogen-halogen compounds

Chemical Stability The product is chemically stable under standard ambient conditions (See Section 7).

Conditions to Avoid Exposure to light may affect product quality. no information available

Materials to Avoid Strong oxidizing agents

Hazardous Decomposition

Products

In the event of fire: see section 5

Hazardous Polymerisation No data available

11. TOXICOLOGICAL INFORMATION

General Information

Cough, Shortness of breath, Headache, Nausea, Vomiting, prolonged or repeated exposure can cause:, Neurotoxic effects. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Mercury compounds have a cytotoxic and protoplasmatoxic effect. Intoxication symptoms: acute: contact with eye causes severe lesions. Swallowing and inhalation of dusts damages mucous membranes of gastrointestinal and respiratory tract (metallic taste, nausea, vomiting, abdominal pain, bloody diarrhoea, intestinal burns, glottal oedema, aspiration pneumonia); drop in blood pressure, cardiac dysrhythmia, circulatory collapse, and renal failure; chronic: inflammation of the mouth with loss of teeth and mercurial line. The principal signs manifest themselves in the CNS (impaired speech, vision, hearing, and sensitivity, loss of memory, irritability, hallucinations, delirium inter alia). This substance should be handled with particular care. Stomach - Irregularities - Based on Human Evidence.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated

exposure. - Kidney

Acute

Acute toxicity

LD50 Oral - Rat - 18 mg/kg

Remarks: (RTECS)

Acute toxicity estimate Inhalation - 4 h - 0.051 mg/l - dust/mist

(Expert judgment)

Acute toxicity estimate Inhalation - Expert judgment - 4 h - 0.051 mg/l - dust/mist

Acute toxicity estimate Dermal - Expert judgment - 5.1 mg/kg

(Expert judgment)

Acute toxicity estimate Dermal - 5.1 mg/kg

No data available

12. ECOLOGICAL INFORMATION

EcotoxicityToxicity to fish
LC50 - Leuciscus idus (Golden orfe) - 0.13 mg/l - 96 h

Remarks: (Lit.)

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 0.0052 mg/l - 48 h

and other aquatic Remarks: (Lit.)

invertebrates

Persistence/Degradability Biodegradability Result: - Not readily biodegradable.

Mobility No Data Available

Environmental Fate No Data Available

Bioaccumulation Potential No Data Available
Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General InformationWaste material must be disposed of in accordance with the national and local regulations.

Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Special Precautions for Land Fill No Da

No Data Available

14. TRANSPORT INFORMATION

Land Transport

Proper Shipping Name MERCURY IODIDE

Class 6.1

Subsidiary Risk(s) No Data Available

EPG No Data Available

UN Number UN 1638

Hazchem No Data Available

Pack Group

Special Provision No Data Available

Sea Transport

Proper Shipping Name MERCURY IODIDE

Class 6.1

Subsidiary Risk(s) No Data Available

UN Number UN 1638

Hazchem No Data Available

Pack Group

Special Provision No Data Available

EMS No Data Available

Marine Pollutant yes

Air Transport

Proper Shipping Name MERCURY IODIDE

Class 6.1

Subsidiary Risk(s) No Data Available

UN Number UN 1638

Hazchem No Data Available

Pack Group ||

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/I 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

Ib 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.

Itr 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