

## SAFETY DATA SHEET

### MERCURY (II) OXIDE, RED AR/ACS

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#### 1. Identification of the substance/preparation and of the company or firm

##### 1.1 Identification of the substance or preparation:

Catalogue no. : KA1286

Product name : Mercury (II) Oxide, red AR/ACS

Synonym : Mercuric oxide red

##### 1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

##### 1.3 Identification of the company or firm:

Elago Enterprises Pty Ltd, 5 The Cloisters, Cherrybrook, N.S.W. 2126, Australia

Tel no. (61) 2 98998169

Fax no. (61) 2 98997976

##### 1.4 Emergency telephone:

(61) 2 98998169 (9:00am - 5:00 pm) [ Office hours ]

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#### 2. Identification of dangers

##### 2.1 Classification of the substance.

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Acute Toxicity (Dermal), Category 2: Fatal in contact with skin.

Acute Toxicity (Inhalation), Category 2: Fatal if inhaled.

Acute Toxicity (Oral), Category 1: Fatal if swallowed.

Specific Target Organ Toxicity, repeated Exposure (Kidney), Category 2: May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Hazardous to the Aquatic Environment (Acute Hazard), Category 1: Very toxic to aquatic life.

Hazardous to the Aquatic Environment (Long Term Hazard), Category 1: Very toxic to aquatic life with long lasting effects.

##### 2.2 Label elements.

Hazard pictograms



Signal words : Danger.

Hazard statements (H) :

H300 : Fatal if swallowed.

H310 : Fatal in contact with skin.

H330 : Fatal if inhaled.

H373 : May cause damage to organs (kidneys) through prolonged or repeated exposure.

H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements (P) :

P260 : Do not breathe dust, fume, gas, mist, vapours, spray.

P262 : Do not get in eyes, on skin, or on clothing.

P264 : Wash 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, eye protection, face protection.

P284 : Wear respiratory protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor, physician.

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 : Immediately call a POISON CENTER or doctor, physician.

P330 : Rinse mouth.

P361 : Remove, Take off immediately all contaminated clothing.

P363 : Wash contaminated clothing before reuse

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

P405 : Store locked up.

##### 2.3 Other hazards.

None known.

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### 3. Composition/information on ingredients

#### 3.1 Substance / Preparation.

Mercury (II) oxide, red

Formular: HgO

CAS No : 21908-53-2

Molecular weight : 216.59

Contains no other components or impurities which will influence the classification of the product.

#### 3.2 Mixture.

Not applicable.

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### 4. First-aid measures

#### 4.1 Description of first aid measures.

Inhaling: Take the person out into the fresh air. If unconscious, seek urgent medical assistance.

Skin contact: Remove contaminated clothing. Wash skin with water and soap or a suitable skin cleaner.  
Seek immediate medical advice.

Eyes: Wash with plenty of water, keeping eyelids open. Seek immediate medical advice.

Ingestion: Never induce vomiting. Seek immediate medical assistance.

#### 4.2 Most important symptoms and effects, both acute and delayed.

Danger Product, fatal if swallowed, contact with skin, inhaled.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Seek immediate medical advice.

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### 5. Fire-fighting measures

#### 5.1 Suitable extinguishing media.

Recommended extinguishing methods: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

#### 5.2 Special hazards arising from the substance.

Special risks: Under fire conditions, hazardous fumes will be present. Exposure to combustion or decomposition products can be harmful to your health.

#### 5.3 Advice for firefighters.

Do not enter fire area without proper protective equipment, including respiratory protection.

Fire protection equipment: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

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### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

#### 6.2 Environmental precautions.

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

#### 6.3 Methods and material for containment and cleaning up.

The contaminated area should be immediately cleaned with an appropriate de-contaminator. Store away from other materials.

#### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

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### 7. Handling and storage

#### 7.1 Precautions for safe handling.

Ensure good ventilation and renewal of the air in the premises. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Keep the product in containers made of a material identical to the original.

#### 7.2 Conditions for safe storage, including any incompatibilities.

Well sealed containers. Dry atmosphere. Away from sources of ignition and heat. Prevent the entry of non-authorised persons.

#### 7.3 Specific end use(s).

None.

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### 8. Exposure controls/personal protection

#### 8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values.

The product does NOT contain substances with Biological Limit Values.

#### 8.2 Exposure controls.

Personal protection : Avoid all unnecessary exposure.

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Respiratory protection : Wear approved mask.  
Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or safety glasses.  
Hygiene measures : Remove contaminated clothing. Wash hands before breaks and when the job is done.

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties.

Appearance:	Solid.
Colour:	Reddish orange powder.
Odour:	Odorless.
Odour threshold:	No data available.
pH value:	No data available.
Melting Point:	500 °C
Boiling Point:	No data available.
Flash point:	No data available.
Flammability (solid, gas) :	No data available.
Evaporation rate :	0.6
Vapour pressure:	No data available.
Vapour density :	No data available.
Lower Explosive Limit:	No data available.
Upper Explosive Limit:	No data available.
Solubility:	No data available.
Density:	11.14
Relative density	No data available.
Partition coefficient (n-octanol/water):	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

### 9.2 Other information.

None.

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## 10. Stability and reactivity

### 10.1 Reactivity.

The product does not present hazards by their reactivity.

### 10.2 Chemical stability.

Stable under room temperature. Store away oxidising agents and highly acidic or alkaline materials.

### 10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

### 10.4 Conditions to avoid.

Avoid contact with incompatible materials and improper handling.

### 10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials.

### 10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated corrosive vapors or gases.

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## 11. Toxicological information

### 11.1 Information on toxicological effects.

Acute toxicity.	LD50 oral rat : 18mg/kg LD50 dermal rat : 315mg/kg
Inhalation:	Fatal if inhaled.
Dermal:	Fatal in contact with skin.
Ingestion:	Fatal if swallowed.
Corrosion:	Based on available data, the classification criteria are not met.
Irritation:	Based on available data, the classification criteria are not met.
Sensitization:	Based on available data, the classification criteria are not met.
Mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Toxic for reproduction:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Specific target organ toxicity following a repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard:	Based on available data, the classification criteria are not met.

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## 12. Ecological information

### 12.1 Toxicity.

Toxicity to fish.  
LC50 *Leuciscus idus* : 0.5 mg/l; 48 h  
Toxicity to daphnia.  
EC50 *Daphnia magna* : 0.005-3.6 mg/l; 48 h  
Toxicity to Algae.  
EC50 *Chlorella pyrenoidosa* : 0.3 mg/l (5h)  
Toxicity to Aquatic plants.  
IC50 *Pseudomonas fluorescens* : 0.005 mg/l.

### 12.2 Persistence and Degradability.

May cause long-term adverse effects in the environment.

### 12.3 Bioaccumulative potential.

Not established.

### 12.4 Mobility in soil

Not established.

### 12.5 Results of PBT and vPvB assessment.

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### 12.6 Other adverse effects.

Discharge into the environment must be avoided.

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## 13. Disposal considerations

### 13.1 Waste treatment methods.

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

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## 14. Transport information

### 14.1 UN number.

UN No: UN1641

### 14.2 UN proper shipping name.

MERCURY OXIDE

### 14.3 Transport hazard class(es).

Class(es): 6.1

### 14.4 Packing group.

Packing group: II

### 14.5 Environmental hazards.

Marine pollutant: Yes.

### 14.6 Special precautions for user.

Labels: 6.1

Hazard number: 60

ADR LQ: 500 g

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A, S-A

Proceed in accordance with point 6.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

The product is not transported in bulk.

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## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance.

Ensure all national/local regulations are observed.

The product is not affected by REACH Restrictions - Annex XVII

The product is not affected by REACH Authorisation - Annex XIV

### 15.2 Chemical safety assessment.

Not Scheduled.

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## 16. Other Information

Abbreviations and acronyms :

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

EC50: Effective concentration, 50%

IC50: Inhibitory Concentration, 50%

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative.

Sources of key data used.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Review number and date.

v. 1.0

Date published.

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Further information.

None.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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