Scientific Laboratory Supplies - Safety Data Sheet

CHE2508

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021 Date printed: 16 September 2024

Section 1. Identification

1.1 Product Identifier CHE2508

Product Name MERCURY (II) OXIDE RED pure 50g.

CAS Number 21908-53-2

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula HgO =216.59

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Scientific Laboratory Supplies

SCIENTIFIC LABORATORY SUPPLIES

Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

1.4 Emergency Telephone (08:00-17:00) 0115 9821111

(24hr) 112 (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 1 (dermal)

Acute toxicity, category 2 (oral)

Acute toxicity, category 2 (inhalation)

H300: Fatal if swallowed.

H330: Fatal if inhaled.

Spec target organ tox - repeat, category 2 H373: May cause damage to organs through prolonged or repeated exposure.

Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

Hazard to aquatic environment, category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Hazard Statements Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled. May cause damage to organs through prolonged or

repeated exposure. Very toxic to aquatic life with long lasting effects.

Do not breathe dust. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. **Precautionary Statements**

Remove/Take off immediately all contaminated clothing.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Mercuric oxide	21908-53-	244-654-7		>99%	Acute Tox. 1 (D), Acute Tox. 2 (O), Acute Tox. 2 (I), STOT
	2				RE 2,Aquatic Acute 1,Aquatic Chronic 1

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. Unless contact has been slight OBTAIN MEDICAL ATTENTION Eyes

Skin Wash off skin thoroughly with water. OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. OBTAIN MEDICAL ATTENTION.

Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY. Ingestion

Personal protection for first Wear protective gloves / eye protection.

aiders

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

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly. Use water spray to keep fire exposed

containers cool.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing vapour. Evacuate area immediately. Use approved personal protective equipment. Do not allow

other people to enter area. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable

container for disposal. Carry out this operation under fume extraction. Wash area down with copious amounts of

water.

Minor Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable

container for disposal. Carry out this operation under fume extraction. Wash area down with copious amounts of

water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term (8hr TWA)		Short Term 15min period)	
Mercuric oxide	21908-53-2	>99%	-	-	0.1 ppm -	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Auto Ignition

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Wear gloves

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Bright red, orange or yollow powder.

Odour No specific odour.
pH Not applicable
Boiling Point Not available
Melting Point 500°C
Flash Point Not applicable
Upper Flammable Limit
Lower Flammable Limit Not applicable

Explosive Properties Can form explosive dust clouds.

Not applicable

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Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 11.4000

Water Solubility Practically insoluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous reactions

NO

No data available.

10.4 Conditions to Avoid

Exposure to light.

10.5 Incompatable Materials

Forms explosive compounds with ammonia, acetylenic compounds, azides and ethylene oxide. Oxidising and

reducing agents.

10.6 Hazardous Decomposition

Decomposes to emit highly toxic fumes of mercury.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Contact with the solid or solution may be irritating to the eyes.

Skin Contact with the solid or solution may be irritating to the skin. Very toxic in contact with skin.

LD50 Skin 315mg/kg Rat

Ingestion Toxic if swallowed. Chronic poisoning leads inflammation of mouth and gums, excessive salivation, loosening of

teeth, kidney damage, muscle tremors, jerky gait, and spasms of extremities. Personality changes may occur

including, depression, irritability and nervousness.

LD50 Oral 18mg/kg Rat

Inhalation Very toxic by inhalation.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Has been found to cause cancer in laboratory animals.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified

Section 12. Ecological

12.1 Toxicity Mercury and its compounds are highly toxic to the environment. Very Toxic to aquatic organisms and may cause

long term adverse effects in the aquatic environment.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB Assessment not required. assessment

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Add a mixture of equal amounts of slaked lime (calcium hydroxide) and flowers of sulphur wetted with enough

water to form a thin paste prior to disposal via an authorised toxic waste service.

Section 14. Transport Information

14.1 UN Number 1641

14.2 Proper Shipping Name Mercury oxide

14.3 Transport classes

UN classification 6.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 60
Tunnel Restriction Code D/E

14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for user

Not transported in bulk.

No special precautions required.

14.7 Transport in bulk

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 1 (dermal); Acute toxicity, category 2 (oral); Acute toxicity, category 2 (inhalation); Spec

target organ tox - repeat, category 2; Hazard to aquatic environment, category 1; Hazard to aquatic environment,

TOXIC

category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H300, H310, H330, H373, H410

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

repeated exposure. Very toxic to aquatic life with long lasting effects.

Hazard Statements (Packs

of 100ml/g or less)

H300+H310+H330, H373, H410

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

exposure. Very toxic to aquatic life with long lasting effects.

Precautionary Statements P260, P301+P310, P361

Do not breathe dust. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Remove/Take off immediately all contaminated clothing.

Precautionary Statements

(Packs of 100ml/g or less)

P260, P301+P310

Do not breathe dust. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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