SDS 3190 Mercury (II) Oxide Red

Date of Issue/re-issue: 04/03/2019

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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

ECP Limited

Company Name Address:

39 Woodside Ave, Northcote, Auckland , New Zealand

Emergency Tel: 0800 243 622 or 0800 CHE M CA LL			Tel +64 9 480 4386			AX +64 9 480 4385	
Product	Mercury (II)	Oxide Red	e Red			de	3190
CAS#	HSNO#	UN #	DG	Packing group) #	Tracking?	Handlers
			Class/es				Certificate?
21908-53-2	HSR004550	1641	6.1	II		6.1A, 6.1B,	6.1A, 6.1B,
						9.1A	9.1A

Recommended use: Laboratory Investigations

2. Hazards identification

2.1 GHS Classification
Acute toxicity, Oral (Category B)
Acute toxicity, Inhalation (Category B)
Acute toxicity, Dermal (Category A)
Specific Target Organ Toxicity (Category B)
Aquatic toxicity (Acute or Chronic) (Category A)
2.2 GHS Label elements, including precautionary statements



Signal word Danger

Hazard statement(s)

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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.

P284 Wear respiratory protection.

Response

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.
P391 Collect spillage.
Storage
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
Disposal
P501 Dispose of contents/container to an approved waste disposal plant.
2.3 Other hazards
None

3. Composition/information on ingredients

3.1 Substances

Synonyms: Mercuric oxide red

Formula: HgO

Molecular weight: 216.59 g/mol

Component		Concentration
Mercury monoxide		
CAS No.	21908-53-2	<= 100%

4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Liver injury may occur. Kidney injury may occur. Nausea, vomiting, diarrhoea, tremors, salivation.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Mercury/mercury oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Light sensitive.

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits Table

Component	CAS No	Value	Control	Basis	
			parameters		
Mercury	21908-	WES-	0.025	New Zealand. Workplace Exposure	
monoxide	53-2	TWA	mg/m³	Standards for Atmospheric Contaminants	

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties a) Appearance Form: powder b) Odour No data available c) Odour Threshold No data available d) pH No data available e) Melting point/freezing point Melting point/range: 500 °C - dec. f) Initial boiling point and boiling range No data available g) Flash point Not applicable h) Evaporation rate No data available i) Flammability (solid, gas) No data available j) Upper/lower flammability or explosive limits No data available k) Vapour pressure No data available I) Vapour density No data available m) Relative density No data available n) Water solubility No data available o) Partition coefficient: n-octanol/water No data available p) Auto-ignition temperature No data available q) Decomposition temperature No data available r) Viscosity No data available

10. Stability and reactivity

10.1 ReactivityNo data available10.2 Chemical stabilityNo data available10.3 Possibility of hazardous reactionsNo data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Hypophosphoric acid, fuels, and combustible materials (wood, paper, oil, etc.), reducing agents. Explosive with sulfur. Forms explosive mercury fulminate with alcohols. Forms heat-and shocksensitive explosive yellow precipitate with phosphine. Solutions of mercuric nitrate form heat- or shock-sensitive acetylide with acetylene, which is explosive on contact with sulfuric acid. Explosive mixture with potassium cyanide when heated under confinement. Exothermic reaction with possible violent reaction with unsaturated or aromatic hydrocarbons.

10.6 Hazardous decomposition products

No data available

11. Toxicological information

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 18 mg/kg LD50 Dermal - Rat - 315 mg/kg Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans **Reproductive toxicity** Laboratory experiments have shown teratogenic effects. Reproductive toxicity - Rat - Oral Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. **Developmental Toxicity - Rat - Oral** Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Eye, ear. Developmental Toxicity - Mouse - Oral Effects on Embryo or Fetus: Fetal death. Developmental Toxicity - Mouse - Oral Specific Developmental Abnormalities: Other developmental abnormalities. Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure. Aspiration hazard No data available Potential health effects Inhalation May be fatal if inhaled. May cause respiratory tract irritation. Ingestion May be fatal if swallowed. Skin

May be fatal if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Signs and Symptoms of Exposure Liver injury may occur. Kidney injury may occur. Nausea, vomiting, diarrhoea, tremors, salivation. Additional Information RTECS: OW8750000

12. Ecological information

12.1 Toxicity
No data available
12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
No data available
12.6 Other adverse effects
Very toxic to aquatic life with long lasting effects.

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	UN Number	1641	1641	1641
14.2	UN Proper Shipping name	MERCURY OXIDE	MERCURY OXIDE	Mercury oxide
14.3	Transport Hazard Class	6.2	6.1	6.1
14.4	Packaging group	П	II	11
14.5	Environmental Hazards	Yes	Yes	No
14.6	Special precautions for user	No data available		

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture National regulatory information

HSNO Approval Code: HSR004550

HSNO Group Standard Approval: Outside of Group Standard Tracking Required: 6.1A, 6.1B, 9.1A Approved Handler Cert.: 6.1A, 6.1B, 9.1A

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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