

# MATERIAL SAFETY DATA SHEET

24HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** Mercury (II) oxide, red  
**CAS#:** 21908-53-2  
**FORMULA:** HgO  
**SYNONYM:** Mercuric oxide, Mercury(2+) oxide

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	21908-53-2	100	0.025mg/m3(Hg)	1mg/10m3(as Hg)

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** Mercury oxides are poisonous by ingestion and inhalation. Acute effects include kidney failure. Prolonged exposure may permanently degrade the central nervous system.

**PRIMARY ROUTES OF EXPOSURE:** Ingestion, skin, Inhalation of dust.

**EYE CONTACT:** May cause mild to severe irritation of the eyes. May deposit mercury in the lens of the eye.

**SKIN CONTACT:** May cause mild to severe irritation of the skin. May be absorbed through the skin.

**INHALATION:** Dust may cause severe respiratory and gastrointestinal distress, and may damage the central nervous system.

**INGESTION:** Lack of appetite, abdominal cramps, vomiting, kidney failure, paralysis. Mercury binds to thiol groups of protein.

**CHRONIC HEALTH EFFECTS:** The chronic effects of mercury poisoning include stomatitis, tremors, psychic disturbances, excessive salivation, dermatitis, and pain on chewing. Other effects include loss of memory, insomnia, lack of confidence, irritability, depression, speech and gait impairment.

**ACUTE HEALTH EFFECTS:** Poison. Stomach upset and pain, mouth pain, vomiting, excessive salivation, urine production stops, urine products appear in the blood, ataxia (difficulty in moving).

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical