

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Mercuric Oxide, Red

CAS number 21908-53-2

Synonyms Mercuric Oxide

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals, pharmaceuticals, preservative in cosmetics

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute oral toxicity:

Acute dermal toxicity:

Category 2

Acute Inhalation Toxicity - Dusts and Mists:

Category 2

Specific target organ toxicity - (repeated exposure):

Category 2

Category 2

Target Organs - Urinary Tract.

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements May cause damage to organs through prolonged or repeared exposure.

Fatal if swallowed, in contact with skin or if inhaled.

Precautionary

Statements:

Prevention: Wash face, hands and any exposed skin thoroughly after

handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear respiratory

protection.

Response: Get medical attention/advice if you feel unwell.

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Immediately call a POISON

CENTER or doctor/physician.

Skin: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN:

Gently wash with plenty of soap and water. Remove/Take off

immediately all contaminated clothing. Wash contaminated clothing

before reuse.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician. Rinse mouth.

Storage: Store locked up. Store in a well-ventilated place. Keep container

tightly closed.

Disposal: Dispose of contents/container to an approved waste disposal

plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life with long lasting effects

WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Mercuric oxide	Mercuric oxide	21908-53-2	100%

SECTION 4: First aid measures

4.1 Description of first-aid measures

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General advice

If inhaled Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or

inhaled the substance; give artificial respiration with the air of a pocket mask equipped with a one-way valve or other proper respiratory mdical device.

Immediate medical attention is required. If not breathing, give artifical respiration.

In case of skin contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Immediate medical attention is required.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

If swallowed Do NOT induce vomiting. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Substance is nonflammable; use agent most

appropriate to extinguish surrounding fire.

Unsuitable extinguishing mediaNo information available.

5.2 Specific hazards arising from the substance or mixture

Very toxic. Non-combustible, substance itself does not burn but may decompose upon heating to product corrosive and/or toxic fumes. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Oxygen.

Combustion Products

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

Flash Point No information available.

Autoignition Temperature No information available.

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Explosion limits

UpperLowerNo data available.No data available.

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available.
No information available.

NFPA

Health	Flammability	Instability	Physical hazards
4	0	1	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Wear self-contained breathing apparatus and protective suit. Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatibilities

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SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Mercuric oxide	PEL	0.1 mg/m3

US. ACGIH Threshold Limit Values

Component	Type	Value
Mercuric oxide	TLV	0.025 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
	IDLH	10 mg/m3
Mercuric oxide	TWA	0.05 mg/m3
	Ceiling	0.1 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Use only under a chemical fume hood. Ensure adequate ventilation, espicially in confined area. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Wear approprate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard FN166

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

No information available.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Powder Solid
Appearance Yellow-orange
Odor Odorless

Odor Threshold No information available PH No information available

Melting Point/Range 500 °C / 932 °F

Boiling Point/Range No information available

Evaporation Rate Not applicable.

Flammability (solid) No information available

Flammability or explosive limit

Upper No data available. Lower No data available.

Vapor Pressure No information available.

Vapor Density Not applicable

Density
No information available.
Solubility
No information available.
Partition coefficient; n-octanol/water
No density available.
Autoignition Temp
No information available.
Decomposition Temp
No information available.

Viscosity Not applicable

Molecular Formula Hg O Molecular Weight 216.59

VOC Content(%)

Oxidizing properties

No information available.

No information available.

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available.

10.2 Chemical stability

Stable under recommended storage conditions. Light sensitive.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Avoid dust formation. Exposure to light. Incompatible products.

10.5 Incompatible materials

Chlorine, Peroxides, Metals, Reducing Agent, Finely powdered metals

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10.6 Hazardous decomposition products

Oxygen

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Mercuric oxide	LD50 = 18 mg/kg (rat)	Not listed	Not listed

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Mercuric oxdie	21908-53-2	Not listed				

Specific target organ toxicity - single exposure

None known

Specific target organ toxicity - repeated exposure

Urinary Tract

Reproductive toxicity

No information available.

Chronic effects

No information available.

11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

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12.1 Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN No. UN1641

Proper Shipping Name MERCURY OXIDE

Hazard Class 6.1
Packing Group

IMDG

UN No. UN1641

Proper Shipping Name MERCURY OXIDE

Hazard Class 6.1 Packing Group

IATA

UN No. UN1641

Proper Shipping Name MERCURY OXIDE

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SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Listed (Mercuric oxide) (21908-53-2)

Component	CAS No	TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory
			Active-Inactive	Flags
Mercuric oxide	21908-53-2	X	ACTIVE	12C

CERCLA Hazardous Substance List (40 CFR 302.4)

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Mercuric oxide	-	500 lb

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See section 2 for more information.

SARA 313 (TRI reporting)

Listed (Mercuric oxide) (21908-53-2) (100% weight) (1.0% Threshold Values)

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Listed (Mercuric oxide) (21908-53-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act

Listed (Mercuric oxide) (21908-53-2) - Toxic Pollutants

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FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Listed (Mercuric oxide) (21908-53-2)

US. New Jersey Worker and Community Right-to-Know Act

Listed (Mercuric oxide) (21908-53-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Listed (Mercuric oxide) (21908-53-2)

California Proposition 65

Listed (Mercuric oxide) (21908-53-2) - Developmental

SECTION 16: Other information

Issue date: 07/15/2024

Revision: 0

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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