

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 04579 Issue date: 15-11-2022 Revision date: 15-11-2022 Supersedes version of: 09-04-2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier** Product form • Substance Trade name MERCURIC OXIDE RED EXTRA PURE Chemical name Mercury (II) oxide EC-No. 244-654-7 · CAS-No. : 21908-53-2 Product code : 04579 Formula : HgO Chemical structure на_О Synonyms : Mercuric oxide 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Use of the substance/mixture : Laboratory chemicals, Manufacture of substances 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com 1.4. Emergency telephone number Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Acute toxicity (oral), Category 1	H300
Acute toxicity (dermal), Category 1	H310
Acute toxicity (inhal.), Category 2	H330
Specific target organ toxicity – Repeated exposure, Category 2	H373
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Fatal in contact with skin. Fatal if swallowed. Fatal if inhaled. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Signal word (CLP)	GHS06 GHS08 GHS09 : Danger
Hazard statements (CLP)	 H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled. H373 - May cause damage to organs through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P260 - Do not breathe dust, fume, gas, mist, vapours, spray. P264 - Wash hands, forearms and face thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P284 - Wear respiratory protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients	
3.1. Substances	
Substance type	: Mono-constituent
Name	: MERCURIC OXIDE RED
CAS-No.	: 21908-53-2
EC-No.	: 244-654-7

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation	 Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice. Call a physician immediately. Call a doctor.
First-aid measures after skin contact	: Immediately call a POISON CENTER/doctor. Specific measures (see supplemental first aid instruction on this label). Gently wash with plenty of soap and water. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Wash skin with plenty of water. Call a physician immediately.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label). Call a physician immediately.
4.2. Most important symptoms and effec	ts, both acute and delayed
Symptoms/effects Symptoms/effects after skin contact Symptoms/effects after ingestion	 There are potential chronic health effects to consider. Fatal in contact with skin. Fatal if swallowed.

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

Treat symptomatically.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with	n its amendment Regulation (EU) 2015/830
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam.
Unsuitable extinguishing media	Do not use a heavy water stream.
5.2. Special hazards arising from the subs	tance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equip	oment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel. Do not breathe dust, fume, gas, mist, spray, vapours. Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	and cleaning up
For containment Methods for cleaning up Other information	 Collect spillage. Mechanically recover the product. Clean up immediately by sweeping or vacuum. Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
	Do not get in eyes, on skin, or on clothing. Do not breathe dust, fume, gas, mist, spray, vapours. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Always wash hands after
	handling the product.
7.2. Conditions for safe storage, including an	y incompatibilities
Storage conditions :	Store in original container. Keep container tightly closed. Protect from moisture. Store locked up. Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
No additional information available	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and	chemical properties	
9.1. Information on basic phy	sical and chemical properties	
Physical state Appearance Molecular mass Colour	: Solid : Powder. : 216.59 g/mol : Reddish orange.	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Odour Odour threshold pH pH solution concentration Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas)		Odourless. No data available 6 – 7 at 20°C 5 % 0.6 500 °C Not applicable No data available Not applicable Not applicable Not applicable No data available Non flammable.
Vapour pressure Relative vapour density at 20 °C Relative density Density Solubility	:	No data available No data available No data available 11.14 g/cm ³ at 20°C Water: Insoluble
Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties Explosive limits	:	No data available Not applicable No data available No data available No data available Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
The product is non-reactive under normal conditions of use, storage and transport.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity (oral) : Fatal if swallowed. Acute toxicity (dermal) : Fatal in contact with skin. Acute toxicity (inhalation) : Fatal if inhaled. Skin corrosion/irritation : Not classified pH: 6 - 7 at 20°C

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Serious eye damage/irritation	Not classified
	pH: 6 – 7 at 20°C
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Additional information	There are potential chronic health effects to consider
Aspiration hazard	Not classified
MERCURIC OXIDE RED EXTRA PURE (2190	8-53-2)
Viscosity, kinematic	Not applicable
Potential adverse human health effects and	Fatal if swallowed,Fatal in contact with skin.

symptoms

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general Ecology - water Hazardous to the aquatic environment, short–term (acute) Hazardous to the aquatic environment, long–term (chronic)	 Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life with long lasting effects. Not classified Very toxic to aquatic life with long lasting effects. 	
12.2. Persistence and degradability		
MERCURIC OXIDE RED EXTRA PURE (219	08-53-2)	
Persistence and degradability	May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
SECTION 13. Disposal considerations		

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance
	with local, regional, national and/or international regulation.
Ecology - waste materials	: Hazardous waste due to toxicity.

SECTION 14: Transport information

13.1. Waste treatment methods

In accordance with ADR / IMDG / IATA / ADN / RID

Safety Data Sheet

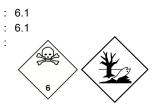
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.1 UN number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 UN 1641 UN 1641 UN 1641 UN 1641 UN 1641 UN 1641
14.2. UN proper shipping name	
Proper Shipping Name (ADR) : MERCURY OXIDE Proper Shipping Name (IMDG) : MERCURY OXIDE Proper Shipping Name (IATA) : Mercury oxide Proper Shipping Name (ADN) : MERCURY OXIDE Proper Shipping Name (RID) : MERCURY OXIDE Transport document description (ADR) : UN 1641 MERCURY OXIDE, 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS Transport document description (IMDG) : UN 1641 MERCURY OXIDE, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALL HAZARDOUS : UN 1641 Mercury oxide, 6.1, II, ENVIRONMENTALLY HAZARDOUS	
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14.3. Transport hazard class(es)

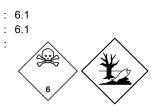
ADR

Transport hazard class(es) (ADR) Danger labels (ADR)

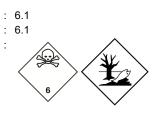


IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)

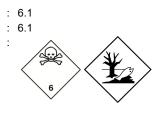


ΙΑΤΑ
Transport hazard class(es) (IATA)
Danger labels (IATA)



ADN

Transport hazard class(es) (ADN) Danger labels (ADN)



: 6.1 : 6.1

RID

Transport hazard class(es) (RID)	
Danger labels (RID)	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



144. Packing group : II Packing group (ADR) : II Packing group (MDG) : II Packing group (ATA) : II Packing group (ADN) : II Packing group (ADN) : II 4.5. Environmental hazards : Yes Other infomation : Yes Other infomation : Yes Char infomation : Soupementary information available 14.5. Special processions for user : Overand transport Classification code (ADR) : E4 Packing arroup (Voloss (ADR) : E4 Packing arroup (Voloss (ADR) : T3 Portable tank and buik container instructions (ADR) : T3 Portable tank and buik container instructions (ADR) : T43 Portable tank and buik container instructions (ADR) : T43 Portable tank and buik container instructions (ADR) : S0 Cark (ADR) : S0 Special provisions for carriage - Pacatage (ADR) : C13		\vee \vee
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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Air transport PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) ERG code (IATA)	: E4 : Y644 : 1kg : 669 : 25kg : 676 : 100kg : 6L
Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN) Equipment required (ADN) Number of blue cones/lights (ADN)	: T5 : 802 : 500 g : E4 : PP, EP : 2
Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Special packing provisions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions	: T5 : 500g : E4 : P002, IBC08 : B4 : MP10 : T3 : TP33
 (RID) Tank codes for RID tanks (RID) Special provisions for RID tanks (RID) Transport category (RID) Special provisions for carriage – Packages (RID) Special provisions for carriage - Loading, unloading and handling (RID) Colis express (express parcels) (RID) Hazard identification number (RID) 	: SGAH : TU15 : 2 : W11 : CW13, CW28, CW31 : CE9 : 60

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

REACH Annex XIV (Authorisation List)

MERCURIC OXIDE RED EXTRA PURE is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

MERCURIC OXIDE RED EXTRA PURE is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Mercury compounds except where they are exported for laboratory-scale research or laboratory analysis: Cinnabar ore; Mercury (I) chloride (Cl2Hg2); Mercury (II) oxide (HgO); Mercury (II) sulphate (HgSO4); Mercury (II) nitrate (Hg(NO3)2); Mercury sulphide (HgS) is subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

POP Regulation (Persistent Organic Pollutants)

MERCURIC OXIDE RED EXTRA PURE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

MERCURIC OXIDE RED is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

France

Occupational diseases		
Code	Description	
RG 2	Occupational diseases of	caused by mercury and its compounds
Germany		
Water hazard class (WGK) Chemicals Prohibition Ordina	ance (ChemVerbotsV)	 WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 408). This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
Hazardous Incident Ordinand	ce (12. BlmSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands		
SZW-lijst van kankerverwekk SZW-lijst van mutagene stoff SZW-lijst van reprotoxische s SZW-lijst van reprotoxische s Vruchtbaarheid	en stoffen – Borstvoeding	 The substance is not listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling		: The substance is not listed
Denmark		
Danish National Regulations		: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product
Switzerland		
Storage class (LK)		: LK 6.1 - Toxic materials
15.2. Chemical safety as	ssessment	

No chemical safety assessment has been carried out

SECTION 16: Other information	
Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Abbreviations and acronyms:	
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:		
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1	
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
H300	Fatal if swallowed.	
H310	Fatal in contact with skin.	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:	
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.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.