

CAS No: 21908-53-2 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification	on of the substance/mixture and of the company/undertaking	
1.1. Product identif	fier	
Product form	: Substance	
	:	
CAS No	: 21908-53-2	
Product code	: 04581	
1.2. Relevant identi	ified uses of the substance or mixture and uses advised against	
1.2.1. Relevant identi	ified uses	
Use of the substance/mix	xture : Laboratory chemicals, Manufacture of substances	
1.2.2. Uses advised a No additional information	-	
1.3. Details of the s	supplier of the safety data sheet	
Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com		
1.4. Emergency tele	ephone number	
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)	
SECTION 2: Hazards id	entification	
2.1. Classification of	of the substance or mixture	
Classification according	g to Regulation (EC) No. 1272/2008 [CLP]	
Acute toxicity (dermal), Category 1	H310	
Acute toxicity (inhal.), Category 2	H330	
Acute toxicity (oral),	H300	

Category 1 Hazardous to the aquatic H400 environment — Acute Hazard, Category 1 Hazardous to the aquatic H410 environment — Chronic Hazard, Category 1

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

T+; R26/27/28 N; R50/53 R33 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS06 GHS09 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled 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 thoroughly after handling P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection P284 - [In case of inadequate ventilation] wear respiratory protection P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician

2.3.	Other	hazards
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No additional information available

SECTION 3: Composition 3.1. Substance	information on ingredients	
Name	: MERCURIC OXIDE YELLOW EXTRA PURE	
CAS No	: 21908-53-2	
CAS NU	. 21900-33-2	
Full text of R- and H-phrases: see section 16		
P		

3.2. Mixture

Not applicable

SECTION 4:	First aid measures	

4.1. Description of first aid measures

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

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First-aid measures after skin contact	: Immediately call a POISON CENTER or doctor/physician. Specific measures (see . on this label). Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautious 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 or doctor/physician. Specific treatment (see on this label).
4.2. Most important symptoms and	d effects, both acute and delayed
Symptoms/injuries	: There are potential chronic health effects to consider.
Symptoms/injuries after skin contact	: Fatal in contact with skin.
Symptoms/injuries after ingestion	: Fatal if swallowed.
4.3. Indication of any immediate m Treat symptomatically.	edical attention and special treatment needed
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from t	he substance or mixture
No additional information available	
5.3. Advice for firefighters	
No additional information available	
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protect	ive equipment and emergency procedures
6.1.1. For non-emergency personne	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for cont	
Methods for cleaning up	: Clean up immediately by sweeping or vacuum.
6.4. Reference to other sections	
No additional information available SECTION 7: Handling and storage	
7.1. Precautions for safe handling	. De net get in even en ekin er en elething
	:Do not get in eyes, on skin, or on clothing.
Precautions for safe handling Hygiene measures	 Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Hygiene measures 7.2. Conditions for safe storage, ir	: Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Hygiene measures	: Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Hygiene measures 7.2. Conditions for safe storage, ir	: Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical ar	nd chemical properties
Physical state	: Solid
Molecular mass	: 216.59 g/mol
Colour	: Orange red to yellow.
Odour	: odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: 0.6
Melting point	: 500 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 11.14 g/cm³ : Water: Insoluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ons
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Overheating. Air contact. N	Aoisture.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition prod	ducts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological ef	fects
Acute toxicity	: Dermal: Fatal in contact with skin. Inhalation: Fatal if inhaled. Oral: Fatal if swallowed.
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: Not classified
exposure)	
Specific target organ toxicity (repeated exposure)	: Not classified
Additional information	: There are potential chronic health effects to consider
Aspiration hazard	: Not classified

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Potential adverse human health effects	: Fatal if swallowed. Fatal in contact with skin.
and symptoms	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability		
MERCURIC OXIDE YELLOW EXTRA PURE (21908-53-2)		
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 assessed	ment	
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Product/Packaging disposal	: Dispose of contents/container to	
Ecology - waste materials	Hazardous waste due to toxicity.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA	ADN	

14.1. UN number	
UN-No. (ADR)	: 1641
UN-No. (IMDG)	: 1641
UN-No.(IATA)	: 1641
UN-No.(ADN)	: 1641
UN-No. (RID)	: 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

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Transport document description (IMDG)	: UN 1641 MERCURY OXIDE, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1641 MERCURY OXIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1641 MERCURY OXIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1641 MERCURY OXIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (ADR)	: 6.1



IMDG

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

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Transport hazard class(es) (IATA) Hazard labels (IATA) : 6.1 : 6.1

: 6.1

: 6.1

: 6.1

: 6.1

: 6.1

:



ADN

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

RID

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



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14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	: 11
Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport		
Classification code (ADR)	:	Т5
Limited quantities (ADR)	:	500g
Excepted quantities (ADR)	:	E4
Packing instructions (ADR)	:	P002, IBC08
Special packing provisions (ADR)	:	B4
Mixed packing provisions (ADR)	:	MP10
Portable tank and bulk container instructions (ADR)	:	Т3
Portable tank and bulk container special provisions (ADR)	:	TP33
Tank code (ADR)	:	SGAH
Tank special provisions (ADR)	:	TU15, TE19
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Special provisions for carriage - Packages (ADR)	:	V11
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13, CV28
Special provisions for carriage - Operation	:	S9, S19
(ADR)		
(ADR) Hazard identification number (Kemler No.)	:	60
	:	
Hazard identification number (Kemler No.)		60 60
Hazard identification number (Kemler No.)		
Hazard identification number (Kemler No.)		60
Hazard identification number (Kemler No.) Orange plates	:	60 1641
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code	:	60 1641 D/E
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea	:	60 1641 D/E
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG)	:	60 1641 D/E 2X
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG)	::	60 1641 D/E 2X 500 g
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	::	60 1641 D/E 2X 500 g E4 P002
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)	:::::::::::::::::::::::::::::::::::::::	60 1641 D/E 2X 500 g E4 P002 IBC08
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG)	:::::::::::::::::::::::::::::::::::::::	60 1641 D/E 2X 500 g E4 P002 IBC08 B2, B4
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG)	:::::::::::::::::::::::::::::::::::::::	60 1641 D/E 2X 500 g E4 P002 IBC08
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG)	:::::::::::::::::::::::::::::::::::::::	60 1641 D/E 2X 500 g E4 P002 IBC08 B2, B4 T3
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	: : : : : : : : : : : : : : : : : : : :	60 1641 D/E 2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Excepted quantities (IMDG) IBC packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	: : : : : : : : : : : : : : : : : : : :	60 1641 D/E 2X 500 g E4 P002 IBC08 B2, B4 T3 TP33
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	: : : : : : : : : : : : : : : : : : : :	60 1641 D/E 2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A

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- Air transport		
PCA Excepted quantities (IATA)	:	E4
PCA Limited quantities (IATA)	:	Y644
PCA limited quantity max net quantity (IATA)	:	1kg
PCA packing instructions (IATA)	:	669
PCA max net quantity (IATA)	:	25kg
CAO packing instructions (IATA)	:	676
CAO max net quantity (IATA)	:	100kg
ERG code (IATA)	:	6L
- Inland waterway transport		
Classification code (ADN)	:	Т5
Special provisions (ADN)	:	802
Limited quantities (ADN)	:	500 g
Excepted quantities (ADN)	:	E4
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	2
- Rail transport		
Classification code (RID)	:	Т5
Limited quantities (RID)	:	500g
Excepted quantities (RID)	:	E4
Packing instructions (RID)	:	P002, IBC08
Special packing provisions (RID)	:	B4
Mixed packing provisions (RID)	:	MP10
Portable tank and bulk container instructions (RID)	:	Т3
Portable tank and bulk container special provisions (RID)	:	TP33
Tank codes for RID tanks (RID)	:	SGAH
Special provisions for RID tanks (RID)	:	TU15
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W11
Special provisions for carriage – Loading and unloading (RID)	:	CW13, CW28, CW31
Colis express (express parcels) (RID)	:	CE9
Hazard identification number (RID)	:	60

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

No REACH Annex XVII restrictions

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

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15.1.2. National regulations

Germany	
AwSV/VwVwS Annex reference	: Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 408)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark	
Recommendations Danish Regulation	: 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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

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 Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
H300	Fatal if swallowed		
H310	Fatal in contact with skin		
H330	Fatal if inhaled		
H400	Very toxic to aquatic life		
H410	Very toxic to aquatic life with long lasting effects		
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed		
R33	Danger of cumulative effects		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
N	Dangerous for the environment		
T+	Very toxic		

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