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Product Name: Mercuric (II) oxide red

CAS No.: 21908-53-2

Version: 0

Product Code	: 904	456		
Company Name		vent Chembio Priv	ate Limited	
Address	•	W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR		
<b>-</b>	RC	ROAD, RABALE, NAVI MUMBAI - 400 701.		
E-mail		o@adventchembio.		
WEBSITE		ww.adventchembio.	com	
Company Phone Number	: 022	2-27690837		
2. Composition/Information of	on Ingred	ients		
Ingredient		CAS No	Percent	
MERCURIC(II) OXIDE RED		21908-53-2	90-100%	
Acute toxicity (Dermal) Acute toxicity (Inhalation - dus nist) Specific target organ toxicity - epeated exposure <b>Environmental hazards</b> Acute hazards to the aquatic environment Chronic hazards to the aquatic environment <b>Labels elements</b>		<ul> <li>Category 1</li> <li>Category 2</li> <li>Category 2</li> <li>Category 1</li> <li>Category 1</li> </ul>		
Hazard symbol Signal word Hazard statement		May cause dam exposure.	ved, in contact with skin or if inhaled. age to organs through prolonged or repeated quatic life with long lasting effects.	



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Precautionary statement Prevention Response	:	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. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. IF ON SKIN: Wash with plenty of
		soap and water. Immediately call a POISON CENTER or doctor/physician. Take off immediately all contaminated clothing and wash it before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. Collect spillage.
Storage	:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	:	None.

4. First Aid Measures	
General information	: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
Ingestion	: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation	: Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration.
Skin contact	: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing

before reuse. Destroy or thoroughly clean contaminated shoes. Immediately flush with plenty of water for at least 15 minutes. If : easy to do, remove contact lenses. Get medical attention immediately. Most important symptoms/effects, Fatal if swallowed. Fatal if inhaled. Fatal in contact with skin. :

acute and delayed Indication of immediate medical : attention and special treatment needed

Eye contact

Treat symptomatically. Symptoms may be delayed.



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5. Fire fighting measures	
General fire hazards Suitable (and unsuitable) extinguish	: May ignite other combustible materials. ing media
Suitable extinguishing media	: Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media Specific hazards arising from the chemical Special protective equipment and pr	<ul> <li>None known.</li> <li>During fire, gases hazardous to health may be formed.</li> </ul>
Special fire fighting procedures	: Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for fire-fighters	: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental Release Measures	
Personal precautions, protective equipment and emergency procedures	: Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Methods and material for containment and cleaning up	Shovel up and place in a container for salvage or disposal. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.
Environmental precautions	: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.



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7. Handling and StoragePrecautions for safe handling: Use personal protective equipment as required. Do not breathe mist<br/>or vapor. Do not taste or swallow. Do not eat, drink or smoke when<br/>using the product. Use only with adequate ventilation. Wash hands<br/>thoroughly after handling. Avoid contact with skin. Obtain special<br/>instructions before use. Do not handle until all safety precautions<br/>have been read and understood.Conditions for safe storage,: Store locked up. Store in a well-ventilated place. Keep container

Conditions for safe storage,<br/>including any incompatibilities:Store locked up. Store in a well-ventilated place. Keep container<br/>tightly closed.

### 8. Exposure Controls Personal Protection

#### Control parameters Occupational exposure limits

Chemical identity	Туре	<b>Exposure Limit values</b>	Source
MERCURY OXIDE - as	TWA	0.025 mg/m3	US. ACGIH Threshold
Hg			Limit Values (03 2013)
MERCURY OXIDE -	Ceil_Time	0.1 ppm	US. NIOSH: Pocket Guide
Vapor as Hg			to Chemical Hazards
			(2010)
MERCURY OXIDE - as	Ceiling	0.1 mg/m3	US. OSHA Table Z-1-A
Hg			(29 CFR 1910.1000)
			(1989)
<b>Biological limit values</b>			
Chemical identity	Exposure Limit values		Source
MERCURY OXIDE	20 µg/g (Creatinine in urin	e)	ACGIH BEL (02 2013)
(Total inorganic mercury:			
Sampling time: Prior to			
shift.)			
Appropriate engineering co	ontrols : No data avai	lable.	
Individual protection meas	ures, such as personal prot	ective equipment	
General information	used. Ventila use process e controls to m limits. If exp levels to an a	l ventilation (typically 10 air o ation rates should be matched enclosures, local exhaust venti- naintain airborne levels below osure limits have not been est acceptable level. An eye wash he immediate work area. Use	to conditions. If applicable, lation, or other engineering recommended exposure ablished, maintain airborne and safety shower must be
Eye/face protection		glasses with side shields (or g	oggles) and a face shield.
Hand protection	: Chemical res	istant gloves.	
Other	: Wear suitable	e protective clothing.	



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<b>Respiratory protection</b>	:	In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.
Hygiene measures	:	Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using the product. Avoid contact with eyes, skin, and clothing.

### 9. Physical and Chemical Properties

Appearance		Solid Red-orange Powder.
Odor	•	Odorless
0.000	•	
pH	:	No data available.
Melting point/freezing point	:	500 °C
Initial boiling point and boiling	:	No data available.
range		
Flash Point	:	Not applicable
Vapor pressure	:	No data available.
Vapor density	:	No data available.
Relative density	:	11.14 (20 °C)
Solubility in water	:	Insoluble in water
Solubility (other)	:	No data available.
Formula	:	HgO
Molecular Weight	:	216.59 g/mol

### 10. Stability and Reactivity

Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products	:	No dangerous reaction known under conditions of normal use. Material is stable under normal conditions. Hazardous polymerization does not occur. Excessive heat. Contact with incompatible materials. Light. Strong reducing agents. Chlorine. Hydrogen peroxide (H2O2) Toxic metal fumes may form when heated to decomposition.
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### 11. Toxicological Information

Information on likely routes of exposure				
Ingestion	:	Fatal if swallowed.		
Inhalation Skin contact	:	Fatal if inhaled. Fatal in contact with skin.		
Eye contact	:	May irritate eyes.		

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)



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Oral Product	: No data available.
Dermal Product	: No data available.
Inhalation Product Repeated dose toxicity Product Skin corrosion/irritation Product	<ul> <li>No data available.</li> <li>No data available.</li> <li>May cause skin irritation.</li> </ul>
Serious eye damage/eye irritation Product	: May irritate eyes.
Respiratory or skin sensitization Product	: Not a skin sensitizer.
Carcinogenicity Product	: This substance has no evidence of carcinogenic properties.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE	: No carcinogenic components identified
US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE	: No carcinogenic components identified
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050	: No carcinogenic components identified.
Germ cell mutagenicity	
In vitro Product	: No mutagenic components identified
In vivo Product	: No mutagenic components identified
<b>Reproductive toxicity Product</b>	: No components toxic to reproduction
Specific target organ toxicity -	: No data available.
single exposure Product	
Specific target organ toxicity -	: May cause damage to organs through prolonged or repeated
repeated exposure Product	exposure.
Aspiration hazard Product	: Not classified.
Other effects	: None known.

### 12. Ecological Information

Ecotoxicity		
Acute hazards to the aquatic environment	ner	
Fish Product	:	No data available.
Aquatic invertebrates Product	:	No data available.
Chronic hazards to the aquatic enviro	onn	nent :
Fish Product	:	No data available.
Aquatic invertebrates Product	:	No data available.
<b>Toxicity to Aquatic Plants Product:</b>	:	No data available.
Persistence and degradability		
<b>Biodegradation Product</b>	:	The product is not expected to be biodegradable.
<b>BOD/COD</b> ratio Product	:	No data available.
Bioaccumulative potential		

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Bioconcentration factor (BCF) Product	: No data available on bioaccumulation.			
Partition coefficient n-octanol / water (log Kow) Product	: No data available.			
Mobility in soil	: No data available.			
Other adverse effects	: Very toxic to aquatic life with long lasting effects.			
13. Disposal consideration				
Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.			
Contaminated packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.			

### 14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 1641	Mercury oxide	6.1	П	Yes
IMDG	UN 1641	Mercury oxide	6.1	П	Yes
IATA	UN 1641	Mercury oxide	6.1	П	Yes

### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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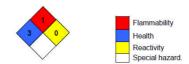
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16. Other Information

**NFPA Hazard ID** 



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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