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## MATERIAL SAFETY DATA SHEET (MSDS)

## **SECTION 1. Product identifiers**

Product name: Mercury, 99% Product Code: M 1765 CAS No : 7439-97-6

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For profess sional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email info@ottokemi.com

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (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 Acute toxicity, Inhalation (Category 2), H330 Reproductive toxicity (Category 1B), H360D Specific target organ toxicity - repeated exposure (Category 1), H372 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410 For the full text of the H-Statements mentioned in this Section, see Section 16. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Danger Hazard statement(s) Fatal if inhaled. H330 H360D H372

H410 Precautionary statement(s) P201 P273 P304 + P340 + P310

Supplemental Hazard Statements Restricted to professional users. Reduced Labeling (<= 125 ml) Pictogram Signal Word Hazard statement(s) H372

H330 H360D Precautionary statement(s) P201 P304 + P340 + P310

Supplemental Hazard

Fatal if inhaled. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Obtain special instructions before use. Avoid release to the environment. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. none

#### Danger

Causes damage to organs through prolonged or repeated exposure. Fatal if inhaled. May damage the unborn child.

Obtain special instructions before use. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. none

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Statements

2.3 Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

3.1 Substances	
Molecular weight	: 200,59 g/mol
CAS-No.	: 7439-97-6
EC-No.	: 231-106-7

Component	Classification	Concentration
mercury		
CAS-No. 7439-97-6	Acute Tox. 2; Repr. 1B; STOT RE 1;	<= 100 %
EC-No. 231-106-7	Aquatic Acute 1; Aquatic Chronic 1;	
	H330, H360D, H372, H400, H410 M-	
	Factor - Aquatic Acute: 1 - Aquatic	
	Chronic: 100	

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

4.1 Description of first-aid measures

General advice

Consult a physician. Show this r	naterial safety	data sheet to	the doctor in a	attendance.
If inhaled	and			

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a

physician.

In case of eye contact

Flush eyes with water as a precaution. If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult

a physician.

4.2 Most important symptoms and effects, both acute and delayed

- The most important known symptoms and effects are described in the labelling (see section
- 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed No data available

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Mercury/mercury oxides.
Not combustible.
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
No data available

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.
6.2 Environmental precautions

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Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. 6.4 Reference to other sections For disposal see section 13. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling Advice on safe handling Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Hygiene measures Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Storage class Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated SECTION 8: Exposure controls/personal protection 8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eve/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Body Protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

a) Physical state b) Color c) Odor d) Melting point/freezing point e) Initial boiling point and boiling range f) Flammability (solid. gas) g) Upper/lower flammability or explosive limits h) Flash point i) Autoignition temperature j) Decomposition temperature k) Ph I) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information Relative vapor density

### SECTION 10: Stability and reactivity

10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
Strong oxidizing agents, Ammonia, Azides, Nitrates, Chlorates, Copper
10.6 Hazardous decomposition products
In the event of fire: see section 5

### **SECTION 11: Toxicological information**

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available.

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liquid silver, white odorless Melting point/range: -38,87 °C

356,6 °C at 1013 hPa

No data available

No data available

Not applicable No data available

No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available 0,00006 g/l at 25 °C No data available

< 0,01 hPa at 20 °C 13,55 g/cm3 at 25 °C No data available No data available

No data available

No data available No data available

6,93 - (Air = 1.0)

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Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

## SECTION 12: Ecological information

SECTION 12: Ecological in	formation		
12.1 Toxicity			
	0 - Cyprinus carpio (Carp) - 0	,160 mg/l - 96 h	
Toxicity to			
fish(Chronic toxicity)			
Remarks: No data available			
(mercury)			
12.2 Persistence and degrad	lability		
The methods for determining	biodegradability are not appl	licable to inorganic substances.	
12.3 Bioaccumulative potent		-	
Bioaccumulation Carassius	auratus (goldfish) - 1.789 d		
- 0,25 µg/l(mercury)			
Bioconcentration factor (BCI	<sup>-</sup> ): 155.986		C.
12.4 Mobility in soil	,		C. C
No data available			
12.5 Results of PBT and vPv	B assessment		
	ains no components consider	ed to be either persistent.	
		ery bioaccumulative (vPvB) at	
levels of 0.1% or higher.	Bry, or vory percloterin and ve		
12.6 Endocrine disrupting pr	operties		
Product:			
	bstance/mixture does not con	tain components	
	red to have endocrine disrupti		
	ig to REACH Article 57(f) or C		
	ed regulation (EU) 2017/2100		
	on (EU) 2018/605 at levels of		
12.7 Other adverse effects			
Very toxic to aquatic life with	long lasting effects		
No data available	long looting chocks.		
SECTION 13: Disposal con	siderations		
13.1 Waste treatment metho			
Product			
	able solutions to a licensed di	sposal company. Waste material	
	dance with the Directive on w		
	lations. Leave chemicals in or		
	cleaned containers like the pro	bauet itself.	
Contaminated packaging			
Dispose of as unused produ			
SECTION 14: Transport inf	ormation		
14.1 UN number			
ADR/RID: 2809		IMDG: 2809	IATA: 2809
14.2 UN proper shipping nar			
ADR/RID : MERC			
IMDG : MERC			
IATA : Mercui			
14.3 Transport hazard class	es)		
ADR/RID: 8 (6.1)		IMDG: 8 (6.1)	IATA: 8 (6.1)
14.4 Packaging group			
ADR/RID: III		IMDG: III	IATA: III
14.5 Environmental hazards			
ADR/RID: yes		IMDG Marine pollutant: yes	IATA: no
		- 1 2	
14.6 Special precautions for			
14.6 Special precautions for Tunnel restriction code	: (E)		
14.6 Special precautions for			

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## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Authorisations and/or restrictions on use REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) mercury National legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : ACUTE TOXIC : ENVIRONMENTAL HAZARDS 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out

### **SECTION 16: Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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