

SAFETY DATA SHEET
in accordance with Community Regulation 2006/1907 EC REACH
Reviewed on 04/07/2013

Mercury - Quecksilber

I- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Mercury

Application: Polarography, porosimetry, dental amalgam, precision thermometers, manufacture of UV tubes and lamp, epitaxial growth...

Supplier: Ophram Laboratoire 34 rue Charles Martin-69190 Saint Fons (France)
Phone : 00 472 89 16 16- email- contact@ophram.com

II – HAZARD IDENTIFICATION.

GHS classification

Reproductive toxicity category 1 B

Acute toxicity, category , inhalation

Specific target organ toxicity- repeated exposure, category 1

Acute aquatic toxicity, category 1

Chronic aquatic toxicity, category 1

H330: Fatal if inhaled

H360D: may damage the unborn child

H372: Causes damage to organs through prolonged or repeated exposure

H410: Very toxic to aquatic life with long lasting effects

P201: Obtain special instructions before use

P273: Avoid release to the environment

P309: If exposed or if you feel unwell

P310: immediately call a POISON CENTER or doctor/physician

P501: Dispose of contents/container in accordance with local/ regional/international/ regulations

EC classification 67/548

N-Dangerous for the environment

R61 May cause harm to the unborn child

R26 Also very toxic by inhalation

R48/23 Also toxic danger of serious damage to health by prolonged exposure through inhalation

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 – Composition/Information on ingredients

chemical name: mercury 100% Symbol: Hg

CAS-number: 7439-97-6

EINECS number: 231-106-7

Index number: 080-001-00-0

4 – FIRST-AID MEASURES.

Eye contact: Rinse immediately with plenty of water, seek medical advice if necessary.

Skin contact: Remove contaminated clothing, rinse immediately with plenty of water or shower,

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wash skin with soap and water, seek medical advice if necessary.

Inhalation: Move into fresh air and keep at rest under observation. Seek medical advice.

Ingestion: Do not induce vomiting; do not drink; rinse mouth and take immediately to hospital

5 – FIRE-FIGHTING MEASURES

Extinguishing media: All

High temperature increases vaporization of the mercury

Specific hazards: Smoke may contain toxic mercury. Avoid inhaling smoke

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system

6 –ACCIDENTAL RELEASE MEASURES.

Personal precautions: In case of vapours development, wear appropriate respiratory protection

Environmental Precautions: Do not allow product to contaminate ground, drains and rivers. prevent the spillage from reaching the outlets.

Methods for cleaning up: clean up spillage. Vacuum remainder with special equipment. Cover remainder with zinc/copper powder or special absorbents, then carefully collect. Measure mercury vapour concentration.

7- HANDLING AND STORAGE

Handling Precaution : Keep cool. Ventilation at floor level, use a mask with filter for mercury vapour

Storage:

Keep tightly closed in a well-ventilated place. Avoid contact with halogens and nitric acid.

8- EXPOSURE CONTROL/PERSONAL PROTECTION.

Not classified as a human carcinogen

Vapour concentration : 0.020 mg/m³

Respiratory Protection : When working in areas where exposure limits are exceeded, wear dust mask with approved cartridge for mercury vapours

Hands protection vinyl gloves are be used

Eyes protection: Safety glasses may be used.

Skin protection : . Guard against spillage. Wear protective clothing, gloves, glasses and respiratory protection

Personal protection. Employees who handle mercury should wash their hands thoroughly with soap and water before eating, smoking or using toilet facilities

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9 – PHYSICAL AND CHEMICAL PROPERTIES.

Appearance: Silver liquid	Exposition properties: N.A
Odour: Odourless	Vapour pressure: 1.5×10^{-3} at 20°C
pH : N.A	Vapour density: 6,9 (air = 1)
Melting point: -39°C	Density: 13.6
Boiling point : 357°C	Solubility : water 0,05 mg/l at 25°C
Decomposition temperature : N.A	Other: - non explosive
Flash point: N.A	

10- STABILITY AND REACTIVITY

Stability: -

Conditions/materials to avoid: Reacts violently with nitric acid, acetylene, ammoniac, chlorine, avoid contact with aluminium

Hazardous decomposition products: Emits toxic vapours when heated

11- TOXICOLOGICAL INFORMATION

CMR effects : (Carcinogenicity, Mutagenicity and toxicity for reproduction)

Teratogenicity: May damage the unborn child.

Specific target organ toxicity - Causes damage to organs through prolonged or repeated exposure

Inhalation: Score throat, headache, nausea, coughing: risk of kidney damage.

Skin contact: Redness; risk of kidney damage.

Eye contact: Irritation, redness

ingestion: May cause neurotoxic/nephrotoxic effects

Inhalation: May cause bronchiolitis, pneumonitis pulmonary edema

Effects for prolonged exposure: Chronic mercury poisoning results in nervous irritability, weakness, tremors, gingivitis, erethism and greying of lens of the eye. Medical conditions aggravated: Kidney disorders.

12- ECOLOGICAL INFORMATION

Toxicity to fish

Dégradability: -

Ecotoxicity: High, very toxic for fish. LC50(Labeo rohita 96hours) 0.018mg/l

LC50 (inhalation rabbit for 2 hours 27mg/m³) 15 days

Do not allow to run into surface waters, wastewater or soil

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13 – DISPOSAL CONSIDERATION.

Dispose of as hazardous waste. Recycle.

14-TRANSPORT INFORMATIONS

ADR/RID/IATA: class 8 - UN number 2809 – Packing group: III. – Label: 8, 6.1

Ltd: Qty 5 Kg- Label class 8 , Sub. 6,1

15- REGULATORY INFORMATION

GHS Labelling (EC 1272/2008)

Hazard Pictograms



Signal word :**DANGER**

Hazard statements

H330: Fatal if inhaled

H360D: may damage the unborn child

H372: Causes damage to organs through prolonged or repeated exposure

H410: Very toxic to aquatic life with long lasting effects

Precautionary statements

P201: Obtain special instructions before use

P273: Avoid release to the environment

P309: If exposed or if you feel unwell

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P501: Dispose of contents/container in accordance with local/ regional/international/ regulations

16- OTHER INFORMATION

Labelling EC 67/548



T+ toxic-



N-Dangerous for the environment

Risk phrases

R61- May cause harm to the unborn child

R26- Very toxic by inhalation

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R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R48/23:Toxic: Danger of serious damage to health by prolonged exposure through inhalation.

Safety Phrases

S53:Avoid exposure-obtain special instructions before use

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

S60- This material and its container must be disposed of as hazardous

S61- Avoid release to the environment. Refer to special instructions/safety data sheets

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