Vickers Laboratories Ltd - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 16 April 2021 Revision date: 12 August 2023

Date printed:

Section 1. Identification

Product Identifier 0415

> Product Name MERCURY (II) CHLORIDE pure

CAS Number

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

HgCl =271.50 Molecular Formula

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 **Supplier** Vickers Laboratories Ltd



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Pudsey

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UNITED KINGDOM

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(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 2 (oral) H300: Fatal if swallowed.

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage. Germ cell mutagenicity, category 2 H341: Suspected of causing genetic defects.

Reproductive toxicity, category 2 H361: Suspected of damaging fertility or the unborn child.

H372: Causes damage to organs through prolonged or repeated exposure. Spec target organ tox - repeat, category 1

Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects. Hazard to aquatic environment, category 1

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms









Hazard Statements Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. Fatal if swallowed.

Causes damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage.

Very toxic to aquatic life with long lasting effects.

Precautionary Statements Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat,

drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

feel unwell. Rinse mouth.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Mercury & its inorganic diva	7487-94-7	231-299-8		>99.9%	Acute Tox. 2 (O), Skin Corr. 1B, Muta. 2, Repr. 2, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. Unless contact has been

slight OBTAIN MEDICAL ATTENTION

Skin Wash off skin thoroughly with water. OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. OBTAIN MEDICAL ATTENTION.

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly. Use water spray to keep fire exposed

containers cool.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing vapour. Evacuate area immediately. Use approved personal protective equipment. Do not allow

other people to enter area. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable

container for disposal. Carry out this operation under fume extraction. Wash area down with copious amounts of

water.

Minor Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable

container for disposal. Carry out this operation under fume extraction. Wash area down with copious amounts of

water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Tern	Short Term 15min period)	
Mercury & its inorganic diva	7487-94-7	>99.9%	-	0.02 mg/m-3	-	-	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Wear gloves

Skin Protection Avoid contact with skin.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

White crystalline solid. Appearance Odour No specific odour. pН Not applicable 302°C **Boiling Point** Melting Point 276°C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable

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Auto Ignition Not applicable

Explosive Properties No.
Oxidising Properties No.

Vapour Pressure Not applicable Relative Density Not available Water Solubility 7.4%

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid No specific conditions.

10.5 Incompatable Materials Forms explosive compounds with ammonia, acetylenic compounds, azides and ethylene oxide.

10.6 Hazardous Decomposition Decomposes to emit highly toxic fumes of mercury.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Contact with the solid or solution may be irritating to the eyes.

Skin Contact with the solid or solution may be irritating to the skin. Very toxic in contact with skin.

LD50 Skin 23mg/kg Mouse

Ingestion Toxic if swallowed. Chronic poisoning leads inflammation of mouth and gums, excessive salivation, loosening of

teeth, kidney damage, muscle tremors, jerky gait, and spasms of extremities. Personality changes may occur

including, depression, irritability and nervousness.

LD50 Oral 37mg/kg Rat

Inhalation Very toxic by inhalation.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Has been found to cause cancer in laboratory animals.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

degradability

12.1 Toxicity Mercury and its compounds are highly toxic to the environment. Very Toxic to aquatic organisms and may cause

long term adverse effects in the aquatic environment.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and No data available.

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB Assessment not required.

2.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Add a mixture of equal amounts of slaked lime (calcium hydroxide) and flowers of sulphur wetted with enough

water to form a thin paste prior to disposal via an authorised toxic waste service.

Section 14. Transport Information

14.1 UN Number 1624

14.2 Proper Shipping Name Mercuric chloride

14.3 Transport classes

UN classification 6.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 60
Tunnel Restriction Code D/E

14.4 Packing Group II

14.5 Environment hazards See section 12.14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk

Not transported in bulk.



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 2 (oral); Skin corrosion/irritation, category 1B; Germ cell mutagenicity, category 2;

Reproductive toxicity, category 2; Spec target organ tox - repeat, category 1; Hazard to aquatic environment,

category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms









Hazard Statements H341, H361, H300, H372, H314, H400+H410

Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. Fatal if swallowed. Causes damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.

Precautionary Statements P260, P271, P264, P270, P301+P312, P330

Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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