Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.1

Revision date: Date printed: 16 April 2021 03 February 2023

041

Section 1. Identification

Product Identifier	0415
Product Name	MERCURY (II) CHLORIDE pure
CAS Number REACH Registration No	7487-94-7 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.
Molecular Formula	HgCl ₂ =271.50

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

1.4

1.1

Vickers Laboratories Ltd



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ļ	Emergency Telephone	(08:00-16:30) +44(0) 113 2362811 (24hr) 112 (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.
Spec target organ tox - repeat, category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Hazard to aquatic environment, category 1	H400: Very toxic to aquatic life.
Hazard to aquatic environment, category 1	H410: Very toxic to aquatic life with long lasting effects.

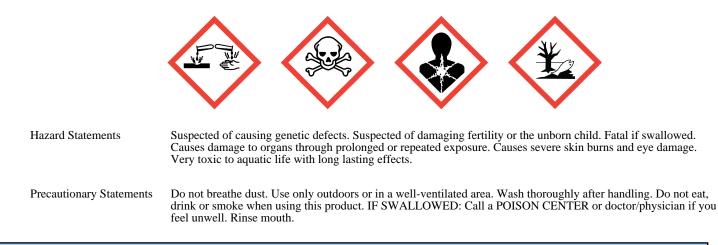
2.2 Label elements

Labelling according to regulation 1272/2008/EC

Danger

Signal word

Hazard Pictograms



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 aiders	Wear protective gloves / eye protection.

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

Personal Protection

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

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

Enviromental	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 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.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
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

Appearance	White crystalline solid.
Odour	No specific odour.
pН	Not applicable
Boiling Point	302°C
Melting Point	276°C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
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Not applicable No. Not applicable Not available 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 reactions	No data available.
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 Products	Decomposes to emit highly toxic fumes of mercury.

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

12	2.1 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	2.2 Persistence and degradability	No data available.	
12	2.3 Bioaccumulative potential	No data available.	
12	2.4 Mobility in soil	No data available.	
12	2.5 Results of PBT & vPvB assessment	Assessment not required.	
12	2.6 Other adverse effects	None known at present.	

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.

Contaminated Packaging

ing Use a licensed waste disposer.

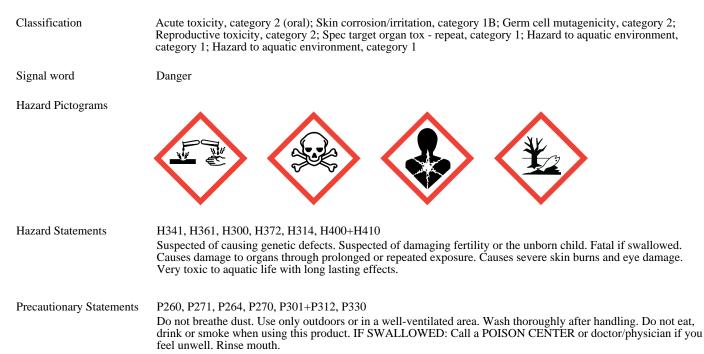
Section 14. Transport Information

14.2Proper Shipping NameMercuric chloride14.3Transport classes UN classification6.1 Subsidiary hazard(s)TOXICSubsidiary hazard(s)NoneTransport category2 ADR Hazard ID60 D/E14.4Packing GroupII14.5Environment hazardsSee section 12.14.6Special precautions for userNot transported in bulk.	14.1	UN Number	1624	_
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 user No special precautions required.	14.2	Proper Shipping Name	Mercuric chloride	
Subsidiary hazard(s) None Transport category 2 ADR Hazard ID 60 Tunnel Restriction Code D/E 14.4 Packing Group II See section 12. 14.6 Special precautions for user	14.3	-		
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 user No special precautions required.		UN classification	6.1	
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 user No special precautions required.		Subsidiary hazard(s)	None	
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 user No special precautions required.		Transport category	2	61
14.4 Packing GroupII14.5 Environment hazardsSee section 12.14.6 Special precautions for userNo special precautions required.		ADR Hazard ID	60	0.1
 14.5 Environment hazards See section 12. 14.6 Special precautions for user No special precautions required. 		Tunnel Restriction Code	D/E	
14.6 Special precautions for No special precautions required. user	14.4	Packing Group	II	
user	14.5	Environment hazards	See section 12.	
14.7 Transport in bulk Not transported in bulk.	14.6		No special precautions required.	
	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)



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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