# Vickers Laboratories Ltd - Safety Data Sheet

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

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(Have this document to hand)

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## Section 1. Identification

VICKERS

Phone Fax

Email

1.4

Website

BORATORIES

**Emergency Telephone** 

1.1	Product Identifier	3210
	Product Name	MERCURIC THIOCYANATE
	CAS Number REACH Registration No	592-85-8 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	Hg(SCN) <sub>2</sub> = 316.74
1.2 I	Relevent identified uses of the	he 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
		Grangefield Industrial Estate Richardshaw Road Pudsey West Yorkshire LS28 6QW

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

Acute toxicity, category 1 (dermal)	H310: Fatal in contact with skin.
Acute toxicity, category 2 (oral)	H300: Fatal if swallowed.
Acute toxicity, category 2 (inhalation)	H330: Fatal if inhaled.
Spec target organ tox - repeat, category 2	H373: May cause 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.

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### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

Signal word

Hazard Pictograms

### C



Hazard Statements	Fatal if swallowed. Fatal if inhaled. Fatal in contact with skin. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Precautionary Statements	Do not breathe dust. Wear protective gloves / protective clothing. Do not get in eyes, on skin, or on clothing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician.
Supplemental Hazard Information (EU)	Contact with acids liberates very toxic gas.

## Section 3. Composition

### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Mercury thiocyanate	592-85-8	209-773-0		>99.9%	Acute Tox. 1 (D), Acute Tox. 2 (O), Acute Tox. 2 (I), STOT RE 2, 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

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

-	, <b>1</b>			
Personal Protecti	ion	Avoid breathing v	pour. Evacuate area immediate	ely. Use approved personal protective equipment
		other people to en	er area. Do not allow general u	se 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 Ex	xposure Limits
			Long Terr	n (8hr TWA)	Short Term 15min period)
Mercury thiocyana	te 592-85-8	>99.9%	-	-	0.025 ppm -
Exposure da	ta source(s)	IOELV: Indicative Occupation	onal Exposure L	mit Value.	
3.2 Exposure cont					
Respiratory 1	Protection	Use L.E.V. or natural ventila maintained chemical cartridg			below exposure limits. If not, use a well
		mannamed chemical carding	e respirator, or t	ise sen contained breau	ning apparatus.
Hand Protec	tion	Wear gloves.	e respirator, or t	ise sen contained breau	ning apparatus.
Hand Protec		e			ning apparatus.
	on	Wear gloves.			ning apparatus.

### Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

hite crystalline solid.
o specific odour.
ot applicable
02°C

Do not allow

Melting Point Flash Point Upper Flammable Limit Lower Flammable Limit Auto Ignition Explosive Properties Oxidising Properties Vapour Pressure Relative Density Water Solubility 276°C Not applicable Not applicable Not applicable No. 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

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S	Contact with the solid or solution may be irritating to the eyes.
1	Contact with the solid or solution may be irritating to the skin. Very toxic in contact with skin.
50 Skin	5 mg/Kg
estion	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.
50 Oral	46 mg/Kg Rat
alation	Very toxic by inhalation.
50 Inhalation	Not available
_0	Not available
cinogenicity	Has been found to cause cancer in laboratory animals.
agenicity	Not considered to be a mutagen.
roductive Effects	None identified.
	60 Skin estion 60 Oral lation 60 Inhalation 20 einogenicity agenicity

## Section 12. Ecological

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	0.162 mg/L Algae (96 hours)
	LC50 Crustacea	0.0052 mg/L Daphnia magna (48 hours)
	LC50 Fish	0.15 mg/L Fathead Minnow (96 hours)
12.2	Persistence and degradability	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	Assessment not required.

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### 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.

Contaminated Packaging Use a licensed waste disposer.

## Section 14. Transport Information

14.1 UN Number	1646	
14.2 Proper Shipping Name	Mercury thiocyanate	
14.3 Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID Tunnel Restriction Code	6.1 None 2 60 D/E	TOXIC 6.1
14.4 Packing Group	D/E II	
14.5 Environment hazards	See section 12.	
14.6 Special precautions for user	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)

Acute toxicity, category 1 (dermal); Acute toxicity, category 2 (oral); Acute toxicity, category 2 (inhalation); Spec target organ tox - repeat, category 2; Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1
Danger
H300, H330, H310, H373, H400, H410 Fatal if swallowed. Fatal if inhaled. Fatal in contact with skin. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
P260, P280, P262, P301+P330+P331, P304+P340, P309+P311 Do not breathe dust. Wear protective gloves / protective clothing. Do not get in eyes, on skin, or on clothing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician.
EUH032 Contact with acids liberates very toxic gas.

### 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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