Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.2 Revision date: 16 April 2021 Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 1470

Product Name THIOUREA pure

CAS Number 62-56-6

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.

Molecular Formula
NH2 CSNH2 =76.12

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

VICKERS

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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 4 (oral)

Carcinogenicity, category 2

H302: Harmful if swallowed.

H351: Suspected of causing cancer.

Reproductive toxicity, category 2 H361: Suspected of damaging fertility or the unborn child. Hazard to aquatic environment, category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms







Hazard Statements Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Harmful if swallowed. Toxic to

aquatic life with long lasting effects.

Precautionary Statements Obtain special instructions before use. Avoid release to the environment. Wear protective gloves / protective

clothing / eye protection / face protection. IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Thiourea	62-56-6	200-543-5		99%	Acute Tox. 4 (O), Carc. 2, Repr. 2, Aquatic Chronic 2

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION. Eyes

Skin Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

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

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 Water spray. 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 dust. Use approved personal protective equipment. Evacuate area immediately. Do not allow

general use of area until it is safe to do so.

6.2 Environmental precautions

Environmental 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 Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage 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)		
Thiourea	62-56-6	99%	-	-	-	-	

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

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

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

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.
pH 7 @ 20°C solution.

Boiling Point Not available
Melting Point 176 °C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.4050

Water Solubility 137 g/l @ 20 °C

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 Excessive heating.10.5 Incompatable Materials Strong oxidising agents.

10.6 Hazardous Decomposition Decomposes to evolve highly toxic fumes of oxides of nitrogen and sulphur.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

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

Skin Unlikely to be an irritant on brief or occasional exposure.

LD50 Skin >2800mg/kg Rabbit

Ingestion Harmful if swallowed.

LD50 Oral 1750mg/kg Rat

Inhalation Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Suspected of causing cancer.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Suspected of damaging fertility or the unborn child.

Section 12. Ecological

12.1 Toxicity Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

LC50 Algal 6.8mg/l Green algae (96 hours)

LC50 Crustacea 5.6 - 18mg/l Daphnia magna (48 hours)

LC50 Fish 10mg/l Fish (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 not required.

assessment

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12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and

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national regulations.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 2811

14.2 Proper Shipping Name Toxic solid, organic, N.O.S. (Thiourea)

14.3 Transport classes

UN classification 6.1 Subsidiary hazard(s) None Transport category 2 ADR Hazard ID 60 **Tunnel Restriction Code** Е

Ш 14.4 Packing Group 14.5 Environment hazards See section 12.

14.6 Special precautions for 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)

Classification Acute toxicity, category 4 (oral); Carcinogenicity, category 2; Reproductive toxicity, category 2; Hazard to aquatic

environment, category 2

Signal word Warning

Hazard Pictograms







Hazard Statements H351, H361, H302, H411

Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Harmful if swallowed. Toxic to

aquatic life with long lasting effects.

P201, P273, P280, P308+P313, P301+P312 Precautionary Statements

Obtain special instructions before use. Avoid release to the environment. Wear protective gloves / protective

clothing / eye protection / face protection. IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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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