# Vickers Laboratories Ltd - Safety Data Sheet

C. (EC) 1272/2009)

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

Revision: 1.1

Revision date: 16 April 2021 Date printed: 12 August 2023

# Section 1. Identification

1.1 Product Identifier 4071

Product Name CYCLOHEXYLAMINE pure

CAS Number 108-91-8

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 C. H. N = 99.17

#### 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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4hr) 11

(Have this document to hand)

# Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

## Classification according to regulation 1272/2008/EC

Flammable liquid, category 3 H226: Flammable liquid and vapour.

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage. Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

Acute toxicity, category 4 (dermal)

H312: Harmful in swantowed:

H312: Harmful in contact with skin.

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

### 2.2 Label elements

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

Signal word Danger

Hazard Pictograms









Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes severe skin burns and eye damage. Harmful if swallowed. Harmful in contact with skin. Hazard Statements

**Precautionary Statements** 

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well

ventilated place. Keep cool.

# **Section 3. Composition**

### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Cyclohexylamine	108-91-8	203-629-0		>98%	Flam. Liq. 3,Skin Corr. 1B,Acute Tox. 4 (O),Acute Tox. 4 (D),Repr. 2

# 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. OBTAIN MEDICAL

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If

breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen Ingestion

if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the

recovery position. 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 Water spray, foam, dry powder or carbon dioxide. Use water spray to keep fire exposed containers cool.

Unsuitable Media Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazards Vapour-air mixtures are explosive.

### 5.3 Advice for firefighters

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

protective clothing and breathing apparatus.

# Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate

area immediately. Do not allow general use of area until it is safe to do so. Beware: vapour is heavier than air and

will tend to accumulate at low spots.

### 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 Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in

remote area, then dispose of absorbent as solid chemical waste. 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 vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

#### 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 T	WA)	Short Term 15min period)	
Cyclohexylamine	108-91-8	>98%	10.0 ppm	41.0 mg/m-3	-	-

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

### 8.2 Exposure controls

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

Hand Protection Use solvent resistant gloves.

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 Clear colourless to pale yellow liquid.

Odour Slight ammoniacal odour.

pH Not applicable Boiling Point 133 - 134°C Melting Point -18°C
Flash Point 27°C
Upper Flammable Limit 9.4 Vol %
Lower Flammable Limit 1.6 Vol %
Auto Ignition 265°C

Explosive Properties Severe in confined spaces.

Oxidising Properties No.

Vapour Pressure Not applicable Relative Density Not available

Water Solubility 0.1%

#### 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

Hot surfaces, naked flames or other sources of ignition.

**10.5** Incompatable Materials Strong oxidising agents.

10.6 Hazardous Decomposition Burning will produce toxic fumes of NOx, carbon monoxide and/or carbon dioxide.

Products

# Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin Harmful in contact with skin. Causes severe burns.

LD50 Skin 277mg/kg Rabbit

Ingestion Harmful if swallowed. Causes severe corrosion of the mouth, throat and gastro-intestinal tract. Aspiration during

swallowing or vomiting may injure lungs.

LD50 Oral 224mg/kg Mouse

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes and

respiratory tract.

LD50 Inhalation 7500mg/m3 Rat

TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Suspected of damaging fertility or the unborn child.

### Section 12. Ecological

**12.1** Toxicity No data available.

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

**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.

# **Section 13. Disposal Considerations**

#### 13.1 Waste treatment methods

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of

into water courses or sewerage systems due to high risk of explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

# **Section 14. Transport Information**

**14.1 UN Number** 2357

14.2 Proper Shipping Name Cyclohexylamine

14.3 Transport classes

UN classification 8 Subsidiary hazard(s) 3 Transport category 2 ADR Hazard ID

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 Flammable liquid, category 3; Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Acute

toxicity, category 4 (dermal); Reproductive toxicity, category 2

Signal word Danger

Hazard Pictograms







CORROSIVE



Hazard Statements H226, H361, H314, H302, H312

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes severe skin burns and eye damage. Harmful if swallowed. Harmful in contact with skin.

Precautionary Statements P210, P280, P305+P351+P338, P337+P313, P303+P361+P353, P403+P235

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep cool.

### 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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