# Vickers Laboratories Ltd - Safety Data Sheet

4872

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

Revision: 1.1 Revision date: 16 April 2021
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## **Section 1. Identification**

1.1 Product Identifier 4872

Product Name HEX-1-ENE

CAS Number 592-41-6

REACH Registration No 01-2119475505-34-XXXX

Molecular Formula  $C_{6}H_{12} = 84.16$ 

### 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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(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 2 H225: Highly flammable liquid and vapour.

Aspiration hazard, category 1 H304: May be fatal if swallowed and enters airways.

#### 2.2 Label elements

## Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Highly flammable liquid and vapour. May be fatal if swallowed and enters airways.

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving **Precautionary Statements** 

equipment. Wear protective gloves / protective clothing / eye protection. 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.

Supplemental Hazard Information (EU)

Repeated exposure may cause skin dryness or cracking

## **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Hex-1-ene	592-41-6	209-753-1	01-2119475505-34-XXXX	98%	Flam. Liq. 2,Asp. Tox. 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. OBTAIN MEDICAL

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-

use. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

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

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

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

if available. Keep container tightly closed. If unconscious place in the recovery position. OBTAIN MEDICAL

ATTENTION URGENTLY.

Personal protection for first 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 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

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 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**

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 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

All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations to a minimum.

### 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

l	Component	CAS No	Concentration	Workplace Exposure Limits				
				Long Term (8hr TWA)		Short Term 15min period)		
Ì	Hex-1-ene	592-41-6	98%	-	-	-	-	

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

### 8.2 Exposure controls

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 liquid Odour No specific odour. pH Not applicable

Boiling Point 62°C Melting Point -140°C

Flash Point -25°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
Explosive Properties
Oxidising Properties
Ves.

6.9%
1.2%
253°C
No.
Vo.

Vapour Pressure 186mmHg@25°C

Relative Density 0.6700

Water Solubility Insoluble in water.

### 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 Hot surfaces, naked flames or other sources of ignition.

**10.5** Incompatable Materials Strong oxidising agents.

10.6 Hazardous Decomposition None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Products

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Both the vapour and liquid will, act as an eye irritant. Repeated exposure to the vapours can lead to reversible

corneal changes and conjunctivitis

Skin The liquid is mildly irritating to the skin. Repeated or prolonged contact may defat the skin producing irritation

and dermatitis.

LD50 Skin >2000mg/kg Rabbit

Ingestion Ingestion will cause causes damage to stomach and intestinal linings.

LD50 Oral 5600mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits will cause narcosis. Prolonged

exposure to vapour concentrations above the occupational exposure limits will cause headache, nausea, vomiting and irritation of the mucous membranes. High concentrations of vapour may produce central nervous system

depression and unconsciousness.

LD50 Inhalation 32000ppm Rat (4 hours)

TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

## Section 12. Ecological

**12.1** Toxicity Moderately toxic to mammals, fish and bacteria.

LC50 Algal 1000mg/l Algae (96 hours)

LC50 Crustacea Not available

LC50 Fish 5.6mg/l Rainbow Trout (96 hours)

**12.2** Persistence and Readily bio-degraded in the environment.

degradability

**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.

**12.6** Other adverse effects None known at present.

# 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 237014.2 Proper Shipping Name 1-Hexene

14.3 Transport classes

14.4 Packing Group

UN classification 3
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 33
Tunnel Restriction Code D/E

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

П

user

**14.7 Transport in bulk** Not transported in bulk.



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 2; Aspiration hazard, category 1

Signal word Danger

Hazard Pictograms





Hazard Statements H225, H304

Highly flammable liquid and vapour. May be fatal if swallowed and enters airways.

Precautionary Statements P210, P240, P280, P303+P361+P353, P403+P235

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Wear protective gloves / protective clothing / eye protection. 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.

Supplemental Hazard Information (EU)

Repeated exposure may cause skin dryness or cracking

### 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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