# Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 2.1 Revision date: 16 April 2021

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# **Section 1. Identification**

1.1 Product Identifier 2927

Product Name CHLOROFORM HPLC

CAS Number 67-66-3

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 CHCl<sub>3</sub> =119.38

#### 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

Reproductive toxicity, category 2 Spec target organ tox - single, category 3

## Classification according to regulation 1272/2008/EC

Acute toxicity, category 4 (oral)

Skin corrosion/irritation, category 2

Acute toxicity, category 4 (inhalation)

H302: Harmful if swallowed.

H315: Causes skin irritation.

H332: Harmful if inhaled.

Serious eye damage/irritation, category 2 H319: Causes serious eye irritation. Carcinogenicity, category 2 H351: Suspected of causing cancer.

H361: Suspected of damaging fertility or the unborn child.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure.

### 2.2 Label elements

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

Spec target organ tox - repeat, category 2

Signal word Warning

Hazard Pictograms





Hazard Statements Harmful if inhaled. Harmful if swallowed. May cause drowsiness or dizziness. Causes skin irritation. Causes

serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May

cause damage to organs through prolonged or repeated exposure.

Precautionary Statements Do not handle until all safety precautions have been read and understood. Do not breathe dust / fume / gas / mist /

vapours / spray. Use personal protective equipment as required. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF exposed or concerned:

Get medical advice/attention. Store in a well ventilated place. Keep container tightly closed.

## **Section 3. Composition**

### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Chloroform	67-66-3	200-6638		>99.5%	Acute Tox. 4 (O),Skin Irrit. 2,Acute Tox. 4 (I),Eye Irrit. 2,Carc. 2,Repr. 2,STOT SE 3 (D),STOT RE 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

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

use. Unless contact has been slight 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. 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.

### 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 Do not use water jet.

#### 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 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

detergent and 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 detergent and 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 sunlight. Protect against moisture to prevent decomposition and corrosion.

#### 7.3 Specific end use(s)

See section 1.2.

# Section 8. Workplace Exposure & Personal Protection

## 8.1 Control parameters

Ī	Component	CAS No	Concentration	Workplace Exposure Limits	
l				Long Term (8hr TWA)	Short Term 15min period)
	Chloroform	67-66-3	>99.5%	2.0 ppm -	9.9 ppm -

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

### 8.2 Exposure controls

**Boiling Point** 

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

Hand Protection Use solvent resistant 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.

62°C

## Section 9. Physical & Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance Clear colourless liquid.
Odour Pleasant sweet odour.
pH Not applicable

-64°C Melting Point

Flash Point Not applicable Not applicable Upper Flammable Limit Lower Flammable Limit Not applicable **Auto Ignition** Not applicable

**Explosive Properties** No. Oxidising Properties No.

Vapour Pressure 159mmHg @ 20°C

Relative Density 1.4850 Water Solubility 0.82%

#### 9.2 Other information

No data available.

# Section 10. Stability & Reactivity

10.1 Reactivity No data available.

Stable under normal conditions 10.2 Chemical Stability

**10.3** Possibility of hazardous No data available.

reactions

Hot surfaces and naked flames.

10.4 Conditions to Avoid

10.5 Incompatable Materials May react violently with sodium, magnesium and other alkali and alkaline earth metals. Prolonged contact with

aluminium and light alloys may cause gas generation and pressure build up.

Hazardous Decomposition Contact with red hot surfaces, sparks or naked flames may generate toxic acid fumes of phosgene and hydrogen

**Products** 

# **Section 11. Toxicological Information**

#### 11.1 Information on toxicological effects

Eyes Both the vapour and liquid will, irritate the eyes and can cause conjunctivitis. More irritating to the eyes than

most common solvents.

Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis. Unlikely to be absorbed

across the skin in harmful amounts.

LD50 Skin

Ingestion Causes immediate irritation of the mouth, throat and gastro-intestinal tract. Ingestion may cause liver and kidney

damage.

LD50 Oral 908mg/kg Rat

Large amounts may cause sensitive individuals to cough. Prolonged exposure to vapour concentrations above the Inhalation

occupational exposure limits may result in unconsciousness and can cause cardiac sensitisation which may prove

suddenly fatal. Liver and kidney damage may also occur.

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity Carcinogen category: 2 Has been found to be carcinogenic to rats and mice. It is suspected as a long term

carcinogen in man but evidence is inconclusive.

Mutagenicity Not considered to be a mutagen.

Chloroform is teratogenic to rats and mice, and highly foetotoxic in rat inhalation studies. Has been implicated in Reproductive Effects

similar disorders in humans. Pregnant and nursing mothers should avoid contact.

Other Information Acts as an anaesthetic. First symptoms of lightheadedness occur within a few minutes at 1000ppm.

# Section 12. Ecological

12.1 Toxicity Unlikely to bio-accumulate. High concentrations are toxic to aquatic life.

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

12.2 Persistence and No data available.

degradability

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**12.3** Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

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.

Contaminated Packaging Use a licensed waste disposer.

# **Section 14. Transport Information**

14.1 UN Number 1888

14.2 Proper Shipping Name Chloroform

14.3 Transport classes

UN classification 6.1 Subsidiary hazard(s) None Transport category ADR Hazard ID 60 **Tunnel Restriction Code** E 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); Skin corrosion/irritation, category 2; Acute toxicity, category 4 (inhalation); Serious

eye damage/irritation, category 2; Carcinogenicity, category 2; Reproductive toxicity, category 2; Spec target organ

tox - single, category 3; Spec target organ tox - repeat, category 2

Signal word Warning

Hazard Pictograms





H332, H302, H336, H315, H319, H351, H361, H373 Hazard Statements

Harmful if inhaled. Harmful if swallowed. May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

P202, P260, P281, P305+P351+P338, P308+P313, P403+P233 **Precautionary Statements** 

> Do not handle until all safety precautions have been read and understood. Do not breathe dust / fume / gas / mist / vapours / spray. Use personal protective equipment as required. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF exposed or concerned: Get medical advice/attention. Store in a well ventilated place. Keep container tightly closed.

### 15.2 Chemical safety assessment

# 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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