# Vickers Laboratories Ltd - Safety Data Sheet

0692

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

Revision: 1.1 Revision date: 16 April 2021
Date printed: 03 February 2023

**Section 1. Identification** 

1.1 Product Identifier 0692

Product Name TOLUENE (low in sulphur)

CAS Number 108-88-3

REACH Registration No 01-2119471310-51-XXXX

Molecular Formula C, H, CH, =92.14

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.

Skin corrosion/irritation, category 2 H315: Causes skin irritation.

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

Spec target organ tox - single, category 3 H336: May cause drowsiness or dizziness.

Spec target organ tox - repeat, category 2 H373: May cause damage to organs through prolonged or repeated exposure.

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. Causes skin irritation. May cause damage to organs through prolonged or

repeated exposure. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Suspected

of damaging fertility or the unborn child.

Precautionary Statements Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection.

Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON

CENTER or doctor/physician. Do NOT induce vomiting.

### Section 3. Composition

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)	
Toluene	108-88-3	203-625-9 01-2119471310-51-XXXX		>99%	Flam. Liq. 2,Skin Irrit. 2,Repr. 2,STOT SE 3 (D),STOT RE 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.

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 Alcohol resistant foam, dry powder, carbon dioxide or vaporising liquid. 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

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

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 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

I	Component	CAS No	Concentration	Workplace Exposure Limits				
l				Long Term (8hr TWA)		Short Term 15min period)		
	Toluene	108-88-3	>99%	50.0 ppm	191.0 mg/m-3	100.0 ppm	384.0 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.

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 Clear colourless liquid.
Odour Characteristic aromatic odour.

pH Not applicable

Boiling Point 111°C

Melting Point -95°C

Flash Point 4°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
7.1%
1.2%
480°C

Explosive Properties Severe in confined spaces.

Oxidising Properties No.

Vapour Pressure 36.7mmHg @ 30°C

Relative Density 0.8630 Water Solubility 0.05%

#### 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 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 Repeated or prolonged contact may defat the skin producing irritation and dermatitis. Skin penetration is possible.

May cause skin sensitisation.

LD50 Skin 12124mg/kg Rabbit

Ingestion The liquid causes damage to stomach and intestinal linings.

LD50 Oral 5800mg/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 25.7mg/l Rat (4 hours)

TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity May be a mutagen.

Reproductive Effects It is considerably embryotoxic, but only weakly teratogenic with a low incidence of malformations.

### Section 12. Ecological

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

LC50 Algal Not available

LC50 Crustacea 6mg/l Daphnia magna (48 hours)
LC50 Fish 5.8mg/l Rainbow trout (96 hours)

**12.2** Persistence and No data available.

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 1294 14.2 Proper Shipping Name Toluene

14.3 Transport classes

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

14.4 Packing Group

14.5 Environment hazards See section 12.

14.6 Special precautions for

14.7 Transport in bulk

user

Not transported in bulk.

No special precautions required.



# 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 2; Skin corrosion/irritation, category 2; Reproductive toxicity, category 2; Spec target

organ tox - single, category 3; Spec target organ tox - repeat, category 2; Aspiration hazard, category 1

Danger Signal word

Hazard Pictograms







Hazard Statements H225, H315, H373, H304, H336, H361

> Highly flammable liquid and vapour. Causes skin irritation. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Suspected

of damaging fertility or the unborn child.

Precautionary Statements P233, P280, P261, P301+P310, P331

Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON

CENTER or doctor/physician. Do NOT induce vomiting.

# 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.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 03 February 2023

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