Vickers Laboratories Ltd - Safety Data Sheet

0658

(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 0658

Product Name TETRACHLOROETHYLENE pure

CAS Number 127-18-4

REACH Registration No 01-2119475329-28-XXXX

Molecular Formula CCl₂CCl₂ =165.83

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

Skin corrosion/irritation, category 2 Skin sensitization, category 1 Carcinogenicity, category 2

Spec target organ tox - single, category 3

Hazard to aquatic environment, category 2

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H336: May cause drowsiness or dizziness.

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. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or

dizziness. Toxic to aquatic life with long lasting effects.

Precautionary Statements Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear

protective gloves / protective clothing / eye protection / face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Tetrachloroethylene	127-18-4	204-825-9	01-2119475329-28-XXXX	>99.5%	Skin Irrit. 2,Skin Sens. 1,Carc. 2,STOT SE 3 (D),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. OBTAIN MEDICAL Eyes

ATTENTION.

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

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.

Ingestion If conscious give plenty of water to drink. 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

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

	Component	CAS No	Concentration	Workplace Exposure Limits				
l				Long Term (8hr TWA)		Short Term 15min period)		
	Tetrachloroethylene	127-18-4	>99.5%	50.0 ppm	100.0 mg/m-3	345.0 ppm	689.0 mg/m-3	

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

8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well

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 Ethereal. Not applicable pН 122.2°C **Boiling Point** Melting Point -23.3°C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No.

Explosive Properties No.

Oxidising Properties No.

Vapour Pressure 10mmHg @ 20°C

Relative Density 1.5960 Water Solubility 0.01%

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 and naked flames.10.5 Incompatable Materials Strong oxidising agents, strong bases

10.6 Hazardous Decomposition No data available.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Both the vapour and liquid are, irritating to the eyes but unlikely to cause serious injury.

Skin It is an irritant to the skin producing dermatitis. Skin absorbtion may be an important exposure route producing

toxic effects similar to inhalation.

LD50 Skin 10000mg/kg Rabbit

Ingestion Ingestion may cause nausea, vomiting, gastric pain and diarrhoea.

LD50 Oral 3000mg/kg Rat

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

nose, throat and respiratory tract. High concentrations of vapour will result in headaches, dizziness, exhaustion

mental instability, drowsiness and paralysis. Fatal cases of inhalation exposure have occurred.

LD50 Inhalation 3786ppmV(gas) Rat (4 hours)

TCLo Not available

Carcinogenicity There is limited evidence to suggest that tetrachloroethylene is carcinogenic in animals. Carcinogen - category 2.

Mutagenicity Not considered to be a mutagen.

Other Information Usually there is a latent period of several hours before the onset of symptoms.

Section 12. Ecological

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

LC50 Algal Not available

LC50 Crustacea 7.5mg/l Daphnia magna (48 hours)
LC50 Fish 4.9mg/l Rainbow Trout (96 hours)

12.2 Persistence and degradability No data available.

12.3 Bioaccumulative potential No data available.

14 F D 1/ CDDT 0 D D 1/ '

12.5 Results of PBT & vPvB

assessment

12.4 Mobility in soil

Assessment not required.

No data available.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment 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.

Section 14. Transport Information

14.1 UN Number 1897

14.2 Proper Shipping Name Tetrachloroethylene

14.3 Transport classes

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

14.4 Packing Group III

14.5 Environment hazards Marine pollutant.

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 Skin corrosion/irritation, category 2; Skin sensitization, category 1; Carcinogenicity, category 2; Spec target organ

tox - single, category 3; Hazard to aquatic environment, category 2

Signal word Warning

Hazard Pictograms







Hazard Statements H351, H315, H317, H336, H411

Suspected of causing cancer. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or

dizziness. Toxic to aquatic life with long lasting effects.

Precautionary Statements P202, P273, P280, P303+P361+P353, P304+P340, P308+P313

Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

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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