# Scientific Laboratory Supplies - Safety Data Sheet

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

Revision: 1.1

Revision date: Date printed: 16 April 2021 16 September 2024

**CHE3758** 

# Section 1. Identification

1.1	<b>Product Identifier</b>	CHE3758
	Product Name	TETRACHLOROETHYLENE tech. 25L.
	CAS Number REACH Registration No	127-18-4 01-2119475329-28-XXXX
	Molecular Formula	CCl_CCl_ =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

Scientific Laboratory Supplies



Unit 6, Foresters Avenue Fairham Business Park Fairham Nottingham NG11 2AF UNITED KINGDOM

(Have this document to hand)

1.4	<b>Emergency Telephone</b>	(08:00-17:00)	0115 9821111
	Email	sales@scientific-la	bs.com
	Fax	0115 9825275	
	Phone	0115 9821111	

(24hr)

# 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

Hazard Pictograms

Warning



112

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

s 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

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL 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 aiders	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	1 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

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.

Personal Protection

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 SpillageContain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with<br/>detergent and copious amounts of water.Minor SpillageContain 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

Γ	Component	CAS No	Concentration		Workplace Exposu	re Limits	
				Long Term (8hr	TWA)	Short Term 15mi	n 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.
pH	Not applicable
Boiling Point	122.2°C
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.
Oxidising Properties	No.
Vapour Pressure	10mmHg @ 20°C

Scientific Laboratory Supplies - Safety Data Sheet

## 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 and naked flames.
10.5	Incompatable Materials	Strong oxidising agents, strong bases
10.6	Hazardous Decomposition Products	No data available.

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

Contaminated Packaging Use a licensed waste disposer.

4.1	UN Number	1897	
14.2	Proper Shipping Name	Tetrachloroethylene	
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID Tunnel Restriction Code	6.1 None 2 60 E	TOXIC 6.1
14.4	Packing Group	III	
14.5	Environment hazards	Marine pollutant.	
14.6	Special precautions for user	No special precautions required.	
14.7	Transport in bulk	Not transported in bulk.	

## 15.1 Safety, health and environment regulations specific for subtance/mixture.

Warning

## 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

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# 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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