

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 09.08.2022 Version 2

# TEKKİM

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Catalog No. TK.120332.00000  
Product Name Perchloroethylene (Tetrachlorideethylene)  
Cas no 127-18-4

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Industrial use. Use as a laboratory reagent. Scientific research and development.

#### 1.2.2. Uses advised against

No information available.

### 1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.  
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA  
Telephone 0224 243 21 71  
E-mail erhan@tekkim.com.tr  
Company Representative Erhan DİLER

**1.4 Emergency Telephone Number +90 506 990 36 86**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

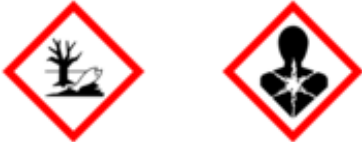
Carcinogenicity, Category 2  
Long (chronic) aquatic hazard, Category 2

For the full text of the H and EUH statements referred to in this section, see section 16.

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

WARNING

Hazard Statements (SEA)

H351 Suspected of causing cancer.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)

Prevention  
P273 Avoid release to the environment.

Intervention

P308+P313 IF exposed and concerned: Get medical advice/attention.

## SECTION 3: Composition/information on ingredients


Classification according to Regulation (EC) No. 1272/2008 (CLP)

### 3.1 Maddeler

EC No 204-825-9  
Molar mass 165.83 g/mol  
Cas No 127-18-4



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Concentration (<= 100 % )

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest..

#### Following skin contact

Wash with plenty of water. Take off contaminated clothing.

#### Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.

#### Following ingestion

Give up to two glasses of water. Get medical help immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

### 4.3 Indication of any immediate medical attention and special treatment needed

Laxative : Sodium sulfate (1 tablespoon 250 ml of water..)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

#### Unsuitable extinguishing media

There is no restriction for this item.

### 5.2 Special hazards arising from the substance or mixture

May form free in case of fire: Hydrogen chloride, phosgene. Heavy-than-air vapors may form on the floor surface. It is not flammable. All-round fire can release dangerous vapours.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

### 5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours,aerosols.Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures,consult an expert..

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

Close drainage channels.Take up with liquid-absorbent material.Clean the affected area.

### 6.4 Reference to other sections

Disposal: see section 13.

### 6.5 Additional information

Clear spills immediately.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

#### Advices on safe handling

Observe label precautions. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.



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## Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep container tightly closed in dry and well-ventilated places. Protect from light.

## 7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Tetrachlorethylene	(127-18-4)
TR MAK	Acceptable maximum concentration (MAK)
	100 mbp 670 mg / m3

### 8.2 Exposure controls

#### Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

#### Personal protection equipment

##### Eye/face protection

Safety glasses

##### Hand protection

Hand protection

Full contact

Glove material : Viton (R)

Glove thickness : 0,70 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness : 0,40 mm

Break through time : >240 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

##### Other skin protection

Protective chlothing.

##### Respiratory protection

Required when vapors/aerosols are generated.

Recommended Filter type: Filter A (according to DIN 3181)

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties



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Physical state	Liquid
Colour	Transparent
Odour	Ether-like
Odour threshold	No information.
pH value	Not applicable.
Melting point/freezing point	-22 °C
Freezing point	No information.
Initial boiling point and boiling range	121 °C 1.013 hPa
Flash point	Not applicable.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	19 hPa 20 °C
Vapour density	5,73
Density	1,62 g/cm3 20 °C
Relative density	No information.
Water solubility (g/l)	0,16 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log POW :3,40 Bioaccumulation is not expected
Auto-ignition temperature	No information.
Decomposition temperature	>150 °C
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	0,9 mPa.s 20 °C
Explosive properties	Not classified as explosive
Oxidising properties	None

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

Section 10.3 to see.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

Risk of explosion with alkali metals, aluminum, sodium amide, barium, nitrogen dioxide.

It can react exothermically with strong alkalis, alkaline earth metals, strong alkalis, light metals, powdered metals, oxidizing agents, strong acids, strong bases, nitrogenous gases.

### 10.4 Conditions to avoid

Strong heating. In case of light effect.

### 10.5 Incompatible materials

Various plastics.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects



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Acute oral toxicity

LD50 Rat: 2.629 mg / kg

(IUCLID)

Symptoms: Risk of inhalation by vomiting. Inhalation may cause pulmonary edema and pneumonitis.

Acute inhalation toxicity

LC50 Rat: 27.58 mg / l; 4 hrs; steam

OECD Test Guideline 403

Symptoms: mucosal irritations, Pulmonary edema

Skin irritation

Drying effect resulting in rough and chapped skin.

Eye irritation

Possible damages: slight irritation

Risk of corneal clouding.

CMR effects

Carcinogenicity:

Suspected of causing cancer.

## 11.2 Additional information

After absorption:

Dermatitis, skin burning, restlessness, drunkenness, dizziness, headache, nausea, vomiting, CNS disorders, drowsiness, muscle weakness, muscle twitching, heartbeat irregularities, unconsciousness, narcosis.

Handle in accordance with safety and hygiene rules.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish

LC50 Oncorhynchus mykiss (Rainbow trout): 4.99 mg / l; 96 hrs

OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 22 mg / l; 48 hrs

OECD Test Guideline 202

Toxicity to bacteria

EC10 Pseudomonas putida: > 45 mg / l; 18 hrs

(Source)

### 12.2 Persistence and degradability

Biodegradation

11th %; 28 g

OECD Test Guideline 301C

It does not spontaneously dissolve easily in nature.

### 12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water)

logPOW: 3.40

Bioaccumulation is not observed.

### 12.4 Mobility in soil

It is moderately mobile in soil.

### 12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

### 12.6 Other adverse effects

Discharge into environment must be avoided.

## SECTION 13: Disposal considerations

### Waste treatment methods



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It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

## SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
<b>14.1 UN number</b>				
UN 1897	UN 1897	UN 1897	UN 1897	UN 1897
<b>14.2 UN proper shipping name</b>				
TETRACHLOROETHYLENE	TETRACHLOROETHYLENE	TETRACHLOROETHYLENE	TETRACHLOROETHYLENE	TETRACHLOROETHYLENE

### 14.3 Transport hazard class(es)

6.1	6.1	6.1	6.1	6.1
-----	-----	-----	-----	-----



### 14.4 Packing group

III	III	III	III	III
-----	-----	-----	-----	-----

### 14.5 Environmental hazards

YES	YES	YES	YES	YES
-----	-----	-----	-----	-----

No information available. No information available. No information available. No information available. No information available.

### 14.6 Special Precautions for User:

No information available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

## SECTION 16: Other informations

### Full text of H statements

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name: Erhan DİLER  
Certificate Number and Date: 11.29.03 & 11 Şubat 2020  
Communication information: 05069903686



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