

# 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.180600.00000  
Product Name Trichloroethylene  
Cas no 79-01-6

### 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.

#### 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  
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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)

Skin irritation, Category 2  
Eye irritation, Category 2  
Skin sensitizer, Category 1  
Carcinogenicity, Category 1B  
Germ cell mutagenicity, Category 2  
Specific Target Organ Toxicity – Single exposure, Category 3  
Long (chronic) aquatic hazard, Category 1

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)

DANGER


Hazard Statements (SEA)

H315 Causes skin irritation.  
H317 Causes an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.

Precautionary Statements (SEA)



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## Prevention

- P201 Read special instructions before use.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Intervention

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.  
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	201-167-4
Molar mass	131.39 g/mol
Cas No	79-01-6
Concentration	(<= 100 % )

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<i>General information</i>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<i>Following inhalation</i>	Remove casualty to fresh air and keep warm and at rest..
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
<i>Following ingestion</i>	After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician 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. 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



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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.

*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.

### 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

Trichloroethylene (79-01-6)

EN MAK	Acceptable maximum concentration (MAK)	100 mbp 535 mg/m <sup>3</sup>
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### 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*



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## Hand protection

in full contact

Glove material : Viton (R)

Glove thickness: 0.7 mm

Absorption time: > 480 minutes

In contact with splash

Glove material : Nitrile rubber

Glove thickness: 0.4 mm

Absorption time: > 10 minutes

The gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resulting standard EN374.

## Other skin protection

Protective clothing.

## Respiratory protection

Required when vapors/aerosols are generated.

Recommended Filter type: Filter A (according to DIN 3181), for vapors of organic compounds.

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Characteristic
Odour threshold	28 - 2160 mbp
pH value	No information.
Melting point/freezing point	-84.8 °C 1.013 hPa
Freezing point	No information.
Initial boiling point and boiling range	87 °C 1.013 hPa
Flash point	It doesn't shine.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	No information.
Upper/lower flammability or explosive limits	No information.
Vapour pressure	77 hPa 20 °C
Vapour density	4.53
Density	1.46 g/cm <sup>3</sup> 20 °C
Relative density	No information.
Water solubility (g/l)	1.28 g/l 25 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: 2.53 (20 °C) Bioaccumulation is not expected. (ECHA)
Auto-ignition temperature	410 °C
Decomposition temperature	> 110 °C
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	0.55 mPa.s 25 °C
Explosive properties	Not classified as explosive.
Oxidising properties	no

## SECTION 10: Stability and Reactivity


### 10.1 Reactivity

Section 10.3 to see.

### 10.2 Chemical stability



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The product is stable under storage at normal ambient temperatures.

## 10.3 Possibility of hazardous reactions

Violent reactions possible with alkaline earth metals, alkali amides, semi-metallic hydrogen compounds, perchloric acid, light metals, aluminum chloride, strong oxidizing agents, potassium nitrate.

Risk of explosion with alkali metals, aluminum, barium, alkali hydroxides, chitin, magnesium, powdered metals, sodium amide, strong oxidizing agents, nitrogen dioxide, boranes.

There is a risk of explosion or formation of flammable gases or vapors with titanium, beryllium, epoxy components.

## 10.4 Conditions to avoid

Powerful heating.

## 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: 5,400 - 7,200 mg/kg  
(ECHA)

Symptoms: Nausea, vomiting, risk of aspiration with vomiting. Inhalation may cause pulmonary edema and pneumonitis.

Acute inhalation toxicity  
LC50 Rat: 64.42 mg/l/12500 mbp; 4 hours; steam  
(ECHA)

Symptoms: Possible damages: mucosal irritations, after latency period: pulmonary edema

Acute dermal toxicity  
LD50 Rabbit: > 20,000 mg/kg  
(ECHA)

Skin irritation  
Rabbit  
Result: irritating  
OECD Test Guideline 404  
Drying effect resulting in rough and cracked skin.  
Causes skin irritation.

Eye irritation  
Rabbit  
Result: Eye irritation  
(IUCLID)  
Causes serious eye irritation.

Sensitivity  
Local lymph node assay (LLNA) Mouse  
Result: positive  
Method: OECD Test Guideline 429  
Causes allergic skin reactions.

CMR effects  
Carcinogenicity:  
It can cause cancer.  
Mutagenicity:  
Suspected of causing genetic damage.

Specific Target Organ Toxicity – Single exposure  
May cause drowsiness or dizziness.  
Target Organs: Central nervous system

## 11.2 Additional information


After absorption:  
Headache, dizziness, heartbeat irregularities, nausea, agitation, spasms, intoxication, narcosis state.  
Handle in accordance with safety and hygiene rules.

## SECTION 12: Ecological information

### 12.1 Toxicity



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Toxicity to fish  
flow-through test LC50 Pimephales promelas (Carp juvenile): 40.7 mg/l; 96 h  
US-EPA

Toxicity to daphnia and other aquatic invertebrates  
static test EC50 Daphnia magna (Water flea): 20.8 mg/l; 48 hours

Toxicity to algae (algae)  
ErC50 Chlamydomonas reinhardtii (green algae): 36.5 mg/l; 72 hours  
Analytical observation: yes  
(ECHA)

Toxicity to bacteria  
static test EC50 active waste: 260 mg/l; 3 hours  
OECD Test Guideline OECD 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)  
NOEC Daphnia magna (Water flea): 10 mg/l; 21 g  
(ECOTOX Database)

## 12.2 Persistence and degradability

Biodegradation  
2.4%; 28 g; oxygenated (aerobic)  
OECD Test Guideline 301C  
It is not readily biodegradable by itself.

## 12.3 Bioaccumulative potential

Partition coefficient ( n-octanol/water)  
log Pow: 2.53 (20 °C)  
Bioaccumulation is not expected. (ECHA)

## 12.4 Mobility in soil

Distribution within environmental environments  
Adsorption/Soil  
log K<sub>oc</sub>: 1.97  
(experimental)  
It is mobile in the 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

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 1710	UN 1710	UN 1710	UN 1710	UN 1710
<b>14.2 UN proper shipping name</b> Trichloroethylene	Trichloroethylene	Trichloroethylene	Trichloroethylene	Trichloroethylene
<b>14.3 Transport hazard class(es)</b> 6.1	6.1	6.1	6.1	6.1



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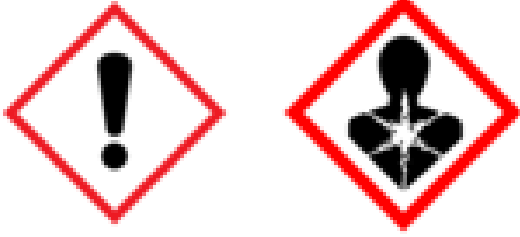


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## 14.4 Packing group

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


- H315 Causes skin irritation.
- H317 Causes an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.

## Person Who Prepared the Safety Data Sheet:

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



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