

Safety Data Sheet

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

Revision Date: 17.11.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.930087.00000
Product Name Methylene Chloride (Dichloromethane)
Cas no 75-09-2

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)

Skin irritation, Category 2
Eye irritation, Category 2
Carcinogenicity, Category 2
Specific Target Organ Toxicity – Single exposure, Category 3, Central nervous system

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)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

Precautionary Statements (SEA)



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Prevention

- P201 Read special instructions before use.
P202 Do not handle until all precautionary statements have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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 | 200-838-9 |
| Molar mass | 84.93 g/mol |
| Cas No | 75-09-2 |
| 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> | 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

No information available.

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

Carbon oxides. Hydrogen chloride gas. May form free in case of fire: Hydrogen chloride, phosgene. 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. It is recommended to use a skin protection cream.

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

| | |
|-----------------------------------------------|--------------------------------------|
| Dichloromethane | (75-09-2) |
| TR MAK Acceptable maximum concentration (MAK) | 500 mbp 1.740 mg / m ³ |

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

Splash contact

Glove material : Viton (R)

Glove thickness : 0,70 mm

Break through time : >120 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.



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Respiratory protection

Required when vapors/aerosols are generated.
Recommended Filter type: AX Filter (EN 371)

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|----------------------------------------------|-------------------|
| Physical state | Liquid |
| Colour | Colorless |
| Odour | Sweet |
| Odour threshold | 24,9 - 611,7 mbp |
| pH value | neutral 20 °C |
| Melting point/freezing point | -95 °C |
| Freezing point | No information. |
| Initial boiling point and boiling range | 40 °C 1.013 hPa |
| Flash point | It doesn't shine. |
| Evaporation rate | 0,71 |
| Flammability (solid, gas) | 605 °C 1,013 hPa |
| Upper/lower flammability or explosive limits | 13 %(V) |
| Upper/lower flammability or explosive limits | 22 %(V) |
| Vapour pressure | 475 hPa 20 °C |
| Vapour density | 2,93 |
| Density | 1,33 g/cm3 20 °C |
| Relative density | No information. |
| Water solubility (g/l) | 13 g/l 25 °C |
| Fat solubility (g/l) | No information. |
| Partition coefficient: n-octanol/water | log Pow: 1.25 |
| Auto-ignition temperature | No information. |
| Decomposition temperature | No information. |

Viscosity

| | |
|----------------------|------------------------------|
| Kinematic viscosity | No information. |
| Dynamic viscosity | 0,43 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

Sensitive to light. The product is stable under storage at normal room temperatures.

10.3 Possibility of hazardous reactions

Risk of explosion with alkali metals, nitrogen oxides, nitrogen dioxide, potassium, sodium azide, perchloric acid, nitric acid, aluminum chloride, amines, oxygen (as liquefied gas), powdered aluminum, sodium.

It gives exothermic reaction with alkaline earth metals, powdered metals, amides, alcoholates, nonmetal oxides, potassium tert-butanolate, sodium amide.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Rubber, various plastics, light metals, metals, mild steel.

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 Oral - Rat - male and female - > 2.000 mg/kg
(OECD Testing Guide 401)

Acute inhalation toxicity
LC50 Inhalation - Mouse - 4 h - 86 mg/l
(ECHA)
Symptoms: Possible damages:, mucosal irritations

Acute dermal toxicity
LD50 Dermal - Rat - male and female - > 2.000 mg/kg
(OECD Testing Guide 402)

Skin irritation
Rabbit
Result: irritations - 4 h
(OECD Testing Guide 404)
Since it reduces the oil rate on the skin, it can irritate the skin and cause burns in case of prolonged exposure at certain intervals.

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation
Notes: (ECHA)
Risk of corneal clouding.

Germ cell mutagenicity
Test Type: Mutagenicity (mammalian cell test): chromosome aberration.
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guidelines 473
Result: positive
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guidelines 471
Result: positive

Specific Target Organ Toxicity – Single exposure
If inhaled - May cause drowsiness or dizziness. - central nervous system

11.2 Additional information

Systemic effects:
Dizziness, nausea, vomiting, narcosis, cough, irritant effects, unconsciousness, shortness of breath, respiratory paralysis, drowsiness, inadequate breathing, CNS disorders, intoxication, risk of corneal clouding.
Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity


Toxicity to fish
flow-through test LC50 - Pimephales promelas (Carp calf) - 193.00 mg/l - 96 h
(ECHA)

Toxicity to daphnia and other aquatic invertebrates
static test LC50 - Daphnia magna (Water flea) - 27 mg/l - 48 h
(US-EPA)

Toxicity to bacteria
static test EC50 - activated sludge - 2,590 mg/l - 40 min
(OECD Testing Guide 209)



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12.2 Persistence and degradability

Biodegradability

Oxygenated (aerobic) - Exposure time 28 d

Result: 68% - Easily degradable.

(OECD Test Guide 301D)

12.3 Bioaccumulative potential

Bioaccumulation

Cyprinus carpio (Carp) - 6 Weeks

- 250 µg/l(Dichloromethane)

Bioconcentration factor (BCF): 2 - 5.4

(OECD Testing Guide 305)

Cyprinus carpio (Carp) - 6 Weeks

- 25 µg/l(Dichloromethane)

Bioconcentration factor (BCF): 6 - 40

(OECD Testing Guide 305)

12.4 Mobility in soil

No information available.

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 |
|--------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|
| 14.1 UN number UN 1593 | UN 1593 | UN 1593 | UN 1593 | UN 1593 |
| 14.2 UN proper shipping name DICHLOROMETHANE | DICHLOROMETHANE | DICHLOROMETHANE | DICHLOROMETHANE | DICHLOROMETHANE |

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



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| | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| NO | NO | NO | NO | NO |
| 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.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.

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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