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



Revision Date: 17.11.2022 Version 2

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.

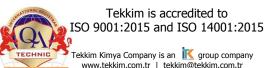
H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

Precautionary Statements (SEA)







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



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.

Revision Date: 17.11.2022

Version 2

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 %)</td>

### **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

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

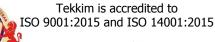
Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

# **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures







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

Revision Date: 17.11.2022 Version 2

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 500 mbp

> maximum 1.740 mg / m3

concentration (MAK)

### 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

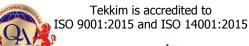
The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Protective chlothing.







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



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 -95 °C

Melting point/freezing point

No information. Freezing point Initial boiling point and boiling range 40 °C 1.013 hPa Flash point It doesn't shine.

Evaporation rate 0,71

605 °C 1,013 hPa Flammability (solid, gas)

Upper/lower flammability or explosive limits 13 %(V) Upper/lower flammability or explosive limits 22 %(V)

475 hPa 20 °C Vapour pressure

Vapour density 2.93

1,33 g/cm3 20 °C Density Relative density No information. Water solubility (g/l) 13 a/l 25°C Fat solubility (g/l) No information. log Pow: 1.25 Partition coefficient: n-octanol/water No information.

Auto-ignition temperature 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.

Revision Date: 17.11.2022

Version 2

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







ISO 9001:2015 and ISO 14001:2015

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



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.

Revision Date: 17.11.2022

Version 2

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



Revision Date: 17.11.2022 Version 2

# 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**

OLO HOR 14. Halisport 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

## 14.5 Environmental hazards





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



Revision Date: 17.11.2022 Version 2 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



