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



Revision Date: 28.09.2022 Version 2

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

#### 1.1 Product identifier

Catalog No. TK.911016.00000

Product Name Methyl Ethyl Ketone (MEK)

Cas no 78-93-3

#### 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. STİ.

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)

Flammable liquid, Category 2 Eve irritation, 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)

#### **DANGER**

# Hazard Statements (SEA)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statements (SEA)

#### Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

P233 Keep container tightly closed.

P240 Ground/connect container or receiving equipment.

P241 Use explosion-proof electrical/ventilation/igniter/.../ material.

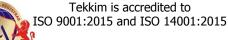
P242 Use only non-flammable tools.

#### Intervention

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.







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# **SECTION 3: Composition/information on ingredients**

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

3.1 Maddeler

201-159-0 EC No 72.11 g/mol Molar mass Cas No 78-93-3 (<= 100 %) Concentration

#### **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).

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

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

#### 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

Water. Foam. Dry extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

There is no restriction for this item.

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

Flammable. Heavy-than-air vapors may form on the floor surface. May form explosive mixture with air at intense temperatures. In case of fire, dangerous flammable gases or vapors may develop. There may be glare. Be careful.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus...

### 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

Be careful not to mix into the sewer. Risk of explosion.

# 6.3 Methods and material for containment and cleaning up

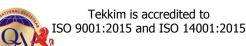
Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

## 6.4 Reference to other sections

Disposal: see section 13.







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#### 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. Keep away from heat and anything that can cause ignition.

#### 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

Contains no subtances with occupational exposure limit values.

#### 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

Contact with splash:

Glove material: butyl rubber Glove thickness: 0.7 mm Puncture time:> 240 minutes

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

Other skin protection

Flame reterdant antistatic protective chlothing.

Respiratory protection

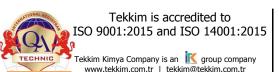
Required when vapors are generated.

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

### **SECTION 9: Physical and chemical Properties**

### 9.1 Information on basic physical and chemical properties





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Liquid

-87 °C

-3 °C

2,48

Soluble.

expected.

No information.

**Transparent** 

No information.

No information.

No information.

No information.

No information.

No information.

1,8 %(V)

10,1 %(V) 95 hPa 20 °C

79,6 °C 1.013 hPa

0,805 g/cm3 20 °C

No information.

No information.

No information.

**TEKKIM** 

Physical state Colour Odour

Odour threshold pH value

Melting point/freezing point

Freezing point

Initial boiling point and boiling range

Flash point Evaporation rate Flammability (solid, gas)

Upper/lower flammability or explosive limits Upper/lower flammability or explosive limits

Vapour pressure Vapour density Density

Relative density Water solubility (g/l) Fat solubility (g/l)

Partition coefficient: n-octanol/water

Auto-ignition temperature Decomposition temperature

Viscosity

Kinematic viscosity

Dynamic viscosity

Explosive properties

Explosive properties

Oxidising properties

No information.

Not classified as explosive.

log Pow: 0,3 40 °C - Bioaccumulation is not

No information.

0,41 mPa.s 20 °C

No information

# **SECTION 10: Stability and Reactivity**

### 10.1 Reactivity

Vapours may form explosive mixtures with air.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No information available.

# 10.4 Conditions to avoid

In case of warming.

### 10.5 Incompatible materials

Oxidizing agents, strong reducing agents.

### 10.6 Hazardous decomposition products

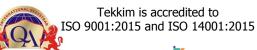
Peroxides.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects







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Acute oral toxicity LD50 Oral - Rat - male and female - 2.193 mg/kg (OECD Test Guideline 423)

Acute inhalation toxicity LC50 Inhalation - Mouse - 4 h - 32.000 mg/m3 (RTECS)

Acute dermal toxicity LD50 Dermal - Rabbit - 6.480 mg/kg (RTECS)

Serious eye damage/eye irritation Eyes - Rabbit Result: Severe irritations (OECD Test Guideline 405)

Specific Target Organ Toxicity – Single exposure May cause drowsiness or dizziness.

#### 11.2 Additional information

After absorption of large quantities: CNS disorders, Dizziness, intoxication, drop in blood pressure, narcosis. Respiratory system causes deterioration in Cardiac function.

The following covers ketones in general: mucosal irritations when vapors/aerosols occur, coughing and dyspnoea after inhalation. Absorption of large amounts leads to CNS depression (narcosis). Repeated skin contact produces a drying effect, with possible second-degree burns. A toxic effect on the kidneys and liver after high doses cannot be excluded. Inhalation of droplets may cause edema of the respiratory system.

Handle in accordance with safety and hygiene rules.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish static test LC50 - Pimephales promelas (Carp calf) - 2.993 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 308 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae (algae) static test ErC50 - Pseudokirchneriella subcapitata - 1.972 mg/l - 72 h (OECD Test Guideline 201)

#### 12.2 Persistence and degradability

Biodegradability
Oxygenated (aerobic) - Exposure time 28 d
Result: 98% - Easily degradable.
(OECD Test Guideline 301D)

BOD/ThBOD ratio 76 % (IUCLID)

### 12.3 Bioaccumulative potential

No information available.

### 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





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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.

obotion 14. Transport information				
ADR	IMDG	IATA	ADN	RID
14.1 UN number				
UN 1193	UN 1193	UN 1193	UN 1193	UN 1193
14.2 UN proper shipping name				
ETHYL METHYL KETONE (METHYL ETHYL KETONE)	ETHYL METHYL KETONE (METHYL ETHYL KETONE)	ETHYL METHYL KETONE (METHYL ETHYL KETONE)	ETHYL METHYL KETONE (METHYL ETHYL KETONE)	ETHYL METHYL KETONE (METHYL ETHYL KETONE)
14.3 Transport hazard class(es)				
3	3	3	3	3





### 14.4 Packing group

Ш Ш Ш

### 14.5 Environmental hazards

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

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Person Who Prepared the Safety Data Sheet:

Name:

Erhan DİLER Certificate Number and Date:

11.29.03 & 11 Şubat 2020

Communication information: 05069903686







Tekkim is accredited to ISO 9001:2015 and ISO 14001:2015

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