

# Safety Data Sheet

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

Revision Date: 08.08.2022 Version 2



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

### 1.1 Product identifier

Catalog No. TK.150130.00000  
Product Name Diethyl Ether  
Cas no 60-29-7

### 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)

Flammable liquids, Category 1  
Acute toxicity, Oral, Category 4  
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)

H224 Extremely flammable liquid and vapour.

H302 Harmful if swallowed.

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.

Intervention

P301+P312 IF SWALLOWED: Call 114 POISON CENTER or doctor/physician if you feel unwell.

P403+P233 Store in a well-ventilated area. Keep container tightly closed.

## SECTION 3: Composition/information on ingredients



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ISO 9001:2015 and ISO 14001:2015

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

## 3.1 Maddeler

EC No	200-467-2
Molar mass	74.12 g/mol
Cas No	60-29-7
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	Rinse carefully and thoroughly with eye wash or water.
Following ingestion	Please give up to two glasses of water. Get immediate medical attention.

### 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

Foam. Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

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. Attention please.

### 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

Do not discharge into 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.

### 6.5 Additional information

Clear spills immediately.



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## 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

Diethylether	(60-29-7)
TR MAK	Acceptable maximum concentration (MAK)
	400 mbp 1,200 mg / m3
TR OEL	Another time unless specified, 15 for a minute not to be exceeded upper limit of exposure value (STEL):
	200 mbp 616 mg / m3
	8 hour set for reference time measured or calculated time weighted average (TWA)
	100 mbp 308 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

Splash contact

Glove material : Viton (R)

Glove thickness : 0,70 mm

Break through time : > 30 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



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Flame retardant antistatic protective clothing.

## Respiratory protection

Required when vapors are generated.

Recommended filter type: AX (EN 371)

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Transparent
Odour	Characteristic
Odour threshold	No information.
pH value	No information.
Melting point/freezing point	-116 °C
Freezing point	No information.
Initial boiling point and boiling range	34,6 °C 1.013 hPa
Flash point	-40 °C
Evaporation rate	No information.
Flammability (solid, gas)	175 °C
Upper/lower flammability or explosive limits	1,7 % (V)
Upper/lower flammability or explosive limits	36 % (V)
Vapour pressure	587 hPa 20 °C
Vapour density	No information.
Density	0,71 - 0,72 g/cm <sup>3</sup> 20 °C
Relative density	No information.
Water solubility (g/l)	68 g/L 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log POW : 1,1 Bioaccumulation is not expected.
Auto-ignition temperature	No information.
Decomposition temperature	No information.

## Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	0,195 mPa.s 20 °C
Explosive properties	Not classified as explosive.
Oxidising properties	None

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

The formation of peroxides is possible. Vapors may form explosive mixture with air.

### 10.2 Chemical stability

The product is stable under storage at normal room temperatures. Contains stabilizer: Butyl hydroxytoluene (<0.001 - 0.0009 %)

### 10.3 Possibility of hazardous reactions

Reacts with air to release peroxide.

### 10.4 Conditions to avoid

Light. Heat. Air. to temperate. Moisture.

### 10.5 Incompatible materials

Rubber, various plastics.

### 10.6 Hazardous decomposition products

Peroxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects



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## Acute oral toxicity

LD50 Rat: 1.215 mg/kg (RTECS)

Symptoms: Risk of aspiration with vomiting. Inhalation may cause pulmonary edema and pneumonitis.

## Acute inhalation toxicity

LC50 Inhalation - Mouse - 4 h - 97.5 mg/l (RTECS)

Symptoms: mucosal irritations

## Acute dermal toxicity

LD50 Rabbit: > 20,000 mg/kg

(ECHA)

## Skin irritation

Rabbit

Result: No irritation.

OECD Test Guideline 404

Dermatitis, skin burning

Repeated exposure may cause skin dryness and cracking.

## Specific Target Organ Toxicity - Single exposure

May cause drowsiness or dizziness.

Target Organs: Central nervous system

### 11.2 Additional information

If inhaled:

Cough, chest pain, difficulty breathing, dizziness, drowsiness.

In case of contact with eyes:

Redness, tearing, blurred vision.

Prolonged or repeated exposure of the skin causes dryness and inflammation of the skin.

Handle in accordance with safety and hygiene rules.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish

LC50 Leuciscus idus (Golden orpheus): 2,840 mg/l; 48 hours

(ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 1,380 mg/l; 48 hours

(IUCLID)

Toxicity to algae (algae)

static test EC50 Desmodesmus subspicatus (green algae): > 100 mg/l; 72 hours

OECD Test Guideline 201

Toxicity to bacteria

static test EC50 active waste: 21,000 mg/l; 3 hours

OECD Test Guideline OECD 209

Static test NOEC active waste: 42 mg/l; 3 hours

OECD Test Guideline OECD 209

### 12.2 Persistence and degradability

It does not dissolve easily in nature by itself.

### 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.



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## 12.6 Other adverse effects

Discharge into environment must be avoided.

## SECTION 13: Disposal considerations

### Waste treatment methods

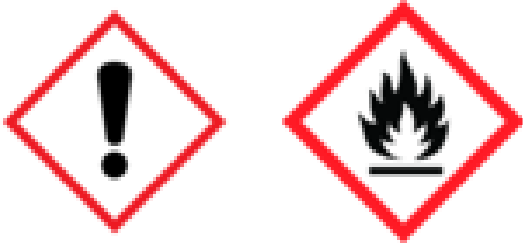
It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

## SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
<b>14.1 UN number</b>				
UN 1155	UN 1155	UN 1155	UN 1155	UN 1155
<b>14.2 UN proper shipping name</b>				
DIETHYL ETHER	DIETHYL ETHER	DIETHYL ETHER	DIETHYL ETHER	DIETHYL ETHER

### 14.3 Transport hazard class(es)

3	3	3	3	3
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### 14.4 Packing group

I	I	I	I	I
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### 14.5 Environmental hazards

NO	NO	NO	NO	NO
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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

H224 Extremely flammable liquid and vapour.

H302 Harmful if swallowed.

H336 May cause drowsiness or dizziness.

Person Who Prepared the Safety Data Sheet:

Name:

Certificate Number and Date:

Communication information:

Erhan DİLER

11.29.03 & 11 Şubat 2020

05069903686



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