

Safety Data Sheet

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



Revision date 28.10.2019

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Version 2

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

1.1 Product identifier

1.2 Relevant identified uses of the substance or mixture and uses advised against TK.911130

Generic name Diethyl Ether ACS GRADE

REACH No.

CAS No. 60-29-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Use as laboratory reagent.

Use of the substance / mixture

Uses advised against

Details of the supplier of the safety data sheet

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Street ORGANİZE SAN. BÖL. M

Telephone 0224 243 21 71

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SECTION 2: Hazards identification

Classification of the substance or mixture

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

Flam. Liq. 1

Acute Tox. 4
Specific target organ toxicity (single exposure)

Full text of R-, H- and EUH-phrases: see section 16.

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2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word

Danger

Hazard Statements

H224 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H336 May cause drowsiness or dizziness.

Precautionary Statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground/bond container and receiving equipment.

Response

Storage

Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

SECTION 3: Composition/information on ingredients

Substances

Formula (C₂H₅)₂O C₄H₁₀O (Hill)

EC No. 200-467-2

Molar mass 74,12 g/mol

<u>Characteristic</u>	<u>CAS No</u>	<u>EC No</u>	<u>Concentration</u>	<u>Classification</u>
	60-29-7	200-467-2	(>= 50 % - <= 100 %)	;4:H2244:H3024:H336

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

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	Subsequently wash off with:.
Following eye contact	In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist..
Following ingestion	Give sodium sulfate as laxative (1 tablespoon in 1 glas of water) with plenty of activated coal..

Most important symptoms and effects, both acute and delayed

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Allergic reactions. . Inebriation. Unconsciousness.

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

Cement.

5.2 Special hazards arising from the substance or mixture

Flammable. Heavy vapors in the air at the ground surface may occur.. It can create explosive mixtures with air on intense heating. In case of fire hazardous combustion gases or vapors may occur.. Flashback. Caution.

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

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.

Measures to prevent fire

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Advices on general occupational hygiene

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

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7.3 Specific end uses

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Components
Guidelines Value Threshold limits Notes
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
must not be exceeded
upper limit of exposure
Value (STEL):
200 mbp
616 mg / m³
8 hours s

8.2 Exposure controls

Appropriate engineering controls

Fresh air (open windows and doors) is necessary..

Personal protection equipment

Eye/face protection

Güvenlik gözlükleri

Hand protection

Contact with splash:
Material of gloves: Viton (R)
Glove thickness: 0,70 mm
Puncture time:> 30 minutes

The protective gloves to be used comply with the specifications of EC directive 89/686 / EEC and the resultant standard

Comply with EN374

Other skin protection

Protective chlothing

Respiratory protection

Required when vapors / aerosols are formed.
Recommended Filter Type: AX Filter (EN 371)

Environmental exposure controls

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See section 7. Additional information about obligations under the common European environment protection regulations:.

SECTION 9: Physical and chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid:
Colour	colourless
Odour	characteristic
Odour threshold	0,3 - 8,8 mbp
pH value	no information 0 g/l
Melting point/freezing point	-116,3 °C
Freezing point	no information
Initial boiling point and boiling range	34,6 °C at 1.013 hPa
Flash point	-40 °C
Evaporation rate	no information
Flammability (solid, gas)	no information °C
Upper/lower flammability or explosive limits	1,7 %(V)
Upper/lower flammability or explosive limits	36 %(V)
Vapour pressure	587 hPa at 20 °C
Vapour density	no information
Density	0,71 g/cm ³ at 20 °C
Relative density	no information
Water solubility (g/l)	69 g/l at 20 °C
Fat solubility (g/l)	no information °C
Partition coefficient: n-octanol/water	log Pow: 0.89 (experimental) (Lit.) Bioaccumulation is not expected.
Auto-ignition temperature	180 °C Metod :DIN 51794.
Decomposition temperature	no information

Viscosity

Kinematic viscosity	0,23 mPa.s at 20 °C
Dynamic viscosity	no information
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

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May form explosive peroxides.. Vapours may form explosive mixtures with air.

10.2 Chemical stability

Sensitive to light. No exothermic decomposition at temperatures up to 300 °C..

10.3 Possibility of hazardous reactions

Risk of explosion or formation of flammable gases or vapors with:
chromyl chloride, Peroxides

There is a risk of explosion with:

azides, halogens, halogen-halogen compounds, nonmetal oxyhalides, strong oxidants
substances, chromium (VI) oxide, halogen oxides, peroxy compounds, perchloric acid,

10.4 Conditions to avoid

In case of warming:.

10.5 Incompatible materials

Rubber, various plastics.

10.6 Hazardous decomposition products

Peroxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Rat: 1.215 mg / kg

(RTECS)

Symptoms: Risk of inhalation by vomiting., Inhalation may cause pulmonary edema and pneumonitis.

It can open.

Acute inhalation toxicity

11.2 Additional information

Narcotic!

After absorption:

Mouth watering, slobbering, feeling extremely fit (euphoria),

ataxia (impaired movement coordination), intoxication, crumple, Unconsciousness, Coma

Can not be ignored:

respiratory paralysis, death

Other dangerous properties cannot be excluded.

Handle in accordance

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 Leuciscus idus (Gold orfe): 2.840 mg / l; 48 h

(ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 1.380 mg / l; 48 h

(IUCLID)

12.2 Persistence and degradability

Biodegradation

Not readily soluble in nature.

12.3 Bioaccumulative potential

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Partition coefficient (n-octanol / water)
log Pow: 0.89
(experimental)
(Lit.) Bioaccumulation is not expected.

12.4 Mobility in soil

No information

12.5 Results of PBT and vPvB assessment

Article XIII of Regulation (EC) No 1907/2006. Attachment to PBT or vPvB criteria.

12.6 Other adverse effects

Henry constant
124.6 Pa * m³ / mol
Method: (experimental)
(Source) Preferably air distribution.
Disposal should be prevented.

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. It was to proceed as their products uncleaned packaging. Atık Maddeler.

SECTION 14: Transport information

Land transport (ADR/RID)

UN number UN 1155
UN proper shipping name DIETHYL ETHER
Transport hazard class(es) 3
Packing group I
Environmental hazards --
Special precautions for YES
Tunnel restriction code D/E

Inland waterway transport (ADN)

Limited quantity (LQ)

Special Provisions

Category

Air transport (ICAO-TI / IATA-DGR)

UN number UN 1155
UN proper shipping name DIETHYL ETHER
Transport hazard class(es) 3
Packing group I
Environmental hazards --
Special precautions for NO

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Sea transport (IMDG)

UN number UN 1155
UN proper shipping name DIETHYL ETHER
Transport hazard class(es) 3
Packing group I
Environmental hazards YES
Special precautions for YES

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Storage class : 3

Chemical Safety Assessment

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SECTION 16: Other information

Relevant R-, H- and EUH-phrases (Number and full text)

H224 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H336 May cause drowsiness or dizziness.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground/bond container and receiving equipment.

Prepared the Document

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