

Safety Data Sheet

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

Revision Date: 17.10.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.930078.00000
Product Name Diethanolamine
Cas no 111-42-2

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.

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)

Acute toxicity, Oral, Category 4
Skin irritation, Category 2
Serious eye damage, Category 1
Reproductive toxicity, Category 2
Specific Target Organ Toxicity – Repeated Exposure, Oral, Category 2, (Kidney, Liver, Blood)
Long (chronic) aquatic hazard, Category 3

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)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure. (Kidney, Liver, Blood)
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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

Tekkim Kimya Company is an  group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 17.10.2022 Version 2

TEKKİM

Prevention

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

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

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	203-868-0
Molar mass	105.14 g/mol
Cas No	111-42-2
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

In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.

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

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

Carbon oxides. Nitrogen oxides (NO_x). Flammable. Fire may cause evolution of: nitrogenous gases, nitrogen oxides. Heavy-than-air vapors may form on the floor surface. Forms explosive mixtures with air at intense temperatures. In case of fire, dangerous flammable gases or vapors may develop.

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



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

Tekkim Kimya Company is an  group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 17.10.2022 Version 2

TEKKİM

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. Avoid generation of dust..

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.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places.

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 substances 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

Fully fitting safety glasses

Hand protection

Hand protection

in full contact

Glove material : Latex gloves

Glove thickness: 0.6 mm

Absorption time: > 480 minutes

In contact with splash

Glove material : Nitrile rubber

Glove thickness: 0.11 mm


Absorption time: > 30 minutes

The gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resulting standard EN374.

Other skin protection



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

Tekkim Kimya Company is an  group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 17.10.2022 Version 2

TEKKİM

Protective clothing.

Respiratory protection

Required when dusts occur.

Recommended Filter type: A-(P2) type filter.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Characteristic
Odour threshold	No information.
pH value	11,0 - 12,0 100 g/l 25 °C
Melting point/freezing point	27 °C 1.013 hPa
Freezing point	No information.
Initial boiling point and boiling range	217 °C 200 hPa
Flash point	138 °C
Evaporation rate	No information.
Flammability (solid, gas)	355 °C 1,013 hPa
Upper/lower flammability or explosive limits	1,6 %(V)
Upper/lower flammability or explosive limits	10,6%(V)
Vapour pressure	1 hPa 105 °C
Vapour density	No information.
Density	1,12 - 1,16 g/cm ³ 20 °C
Relative density	3,63
Water solubility (g/l)	105 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: -2,46 25 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.

Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	390,9 mPa.s 30 °C
Explosive properties	Not classified as explosive.
Oxidising properties	No information.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Forms explosive mixtures with air at intense temperatures.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

They give exothermic reaction with anhydrides, oxidizing agents, acids, isocyanates, halogen-containing compounds, peroxides, phenols, acid halides, strong reducing agents.

In case of contact with nitrites, nitrates, nitric acid, the release of nitrosamines is possible!

10.4 Conditions to avoid

Powerful heating.

10.5 Incompatible materials

Bronze, copper, copper alloys, brass, zinc, zinc alloys, strong oxidizing agents.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



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

Tekkim Kimya Company is an group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 17.10.2022 Version 2

TEKKİM

Acute oral toxicity

LD50 Oral - Rat - male and female - 1,600 mg/kg
(OECD Testing Guide 401)

Symptoms: Irritation of mucous membranes in the mouth, throat, esophagus and gastrointestinal tract.

Skin corrosion/irritation

Skin - Rabbit

Result: irritating

(OECD Testing Guide 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Causes serious eye damage.

(OECD Testing Guide 405)

Reproductive toxicity

Suspected of causing damage to the unborn child.

Suspected of damaging fertility.

Specific target organ toxicity - repeated exposure

If swallowed - May cause damage to organs through prolonged or repeated exposure. - Kidney, Liver, Blood

11.2 Additional information

Systemic effects:

Irritation and corrosion, cough, nausea, headache, dizziness, risk of serious damage to eyes.

Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

static test LC50 - Oncorhynchus mykiss (Rainbow trout) - 460 mg/l - 96 h
(ECHA)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Ceriodaphnia dubia (dappie) - 30.1 mg/l - 48 h
(ECHA)

Toxicity to algae (algae)

static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 9.5 mg/l - 96 h
(US-EPA)

Toxicity to bacteria

static test EC10 - activated sludge - > 1.000 mg/l - 30 min
(OECD Testing Guide 209)

12.2 Persistence and degradability

Biodegradability

Oxygenated (aerobic) - Exposure time 28 d

Result: 93% - Easily degradable.

(OECD Test Guide 301F)

Biochemical Oxygen Demand (BOD)

885 mg/g

(External product safety sheet)

Chemical Oxygen Demand (COD)

1,352 mg/g


(External product safety sheet)

12.3 Bioaccumulative potential

No information available.



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

Tekkim Kimya Company is an  group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi
Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 17.10.2022 Version 2



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 --	--	--	--	--
14.2 UN proper shipping name It is not classified as dangerous goods.	It is not classified as dangerous goods.	It is not classified as dangerous goods.	It is not classified as dangerous goods.	It is not classified as dangerous goods.
14.3 Transport hazard class(es) --	--	--	--	--
14.4 Packing group --	--	--	--	--
14.5 Environmental hazards 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



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

Tekkim Kimya Company is an group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi
Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY
+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66
Factory: istoc 33.ada No: 47-49-51-53
+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 17.10.2022 Version 2

TEKKİM


- H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure. (Kidney, Liver, Blood)
H412 Harmful to aquatic life with long lasting effects.

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

Tekkim Kimya Company is an  group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi
Factory: O.S.B Mavi Caddesi 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31