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



Revision Date: 17.10.2022 Version 2

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

# 1.1 Product identifier

TK.930078.00000 Catalog No. **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

TEKKİM KİMYA SAN. TİC. LTD. ŞTİ. Name

ORGANIZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA Street

0224 243 21 71 Telephone

E-mail erhan@tekkim.com.tr

Erhan DİLER Company Representative

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 eve damage.

H361 Suspected of damaging fertility or the unborn child.

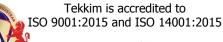
H373 May cause damage to organs through prolonged or repeated exposure. (Kidney, Liver, Blood)

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (SEA)







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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

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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 % )</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 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 (NOx). 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

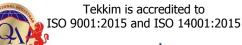
Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures







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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 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

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

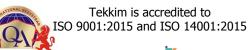
Glove material: Nitrile rubber Glove thickness: 0.11 mm Absorption time: > 30 minutes

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

Other skin protection









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**TEKKIM** 

Protective chlothing.

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 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

1,6 %(V) Upper/lower flammability or explosive limits 10,6%(V) Upper/lower flammability or explosive limits 1 hPa 105 °C Vapour pressure

Vapour density No information. Density

1,12 - 1,16 g/cm3 20 °C Relative density 3,63

Water solubility (q/l) 105 g/l 20 °C Fat solubility (g/l) No information.

Partition coefficient: n-octanol/water log Pow: -2.46 25 °C

No information. Auto-ignition temperature Decomposition temperature No information.

Viscosity

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

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.

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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







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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.

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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

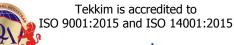
(External product safety sheet)

# 12.3 Bioaccumulative potential

No information available.







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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.

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| ADR                           | IMDG | IATA | ADN | RID |  |  |
|-------------------------------|------|------|-----|-----|--|--|
| 14.1 UN number                |      |      |     |     |  |  |
|                               |      |      |     |     |  |  |
| 14.2 LIN proper chinning name |      |      |     |     |  |  |

#### 14.2 UN proper shipping name

| It is not classified as dangerous | It is not classified as dangerous | It is not classified as dangerous | It is not classified as dangerou | s It is not classified as dangerous |
|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-------------------------------------|
| goods.                            | goods.                            | goods.                            | goods.                           | goods.                              |

# 14.3 Transport hazard class(es)



| 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







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H373 May cause damage to organs through prolonged or repeated exposure. (Kidney, Liver, Blood)

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H412 Harmful to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name:

Certificate Number and Date: Erhan DİLER

Communication information:

05069903686





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