

Safety Data Sheet

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

Revision Date: 21.11.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.930103.00000
Product Name Ethanolamine
Cas no 141-43-5

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

1.2.1. Relevant identified uses

Pharmaceutical production. 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
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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
Acute toxicity, If inhaled, Category 4
Acute toxicity, Dermal, Category 4
Skin Corrosion, Subcategory 1B
Serious eye damage, Category 1
Specific Target Organ Toxicity – Single exposure, Category 3, Respiratory system
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 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.


H335 May cause respiratory irritation.

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.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.

P304+P340 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing.

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

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	205-483-3
Molar mass	61.08 g/mol
Cas No	141-43-5
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 to fresh air. Call a doctor. If breathing stops: apply mechanical respiration immediately, with oxygen if necessary.
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	Give up to two glasses of water. Get medical help immediately. Do not try to neutralize. Avoid vomiting (risk of perforation!).

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



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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.

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.

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

Ethanolamine	(141-43-5)
TWA (8 Hours)	1 ppm 2,5 mg/m ³
STEL (15 Min.)	3 ppm 7,6 mg/m ³

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



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Hand protection

Full contact

Glove material : latex gloves

Glove thickness :0,6 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >10 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

Protective chlothing.

Respiratory protection

Required when vapors/aerosols are generated.

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

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	like amen
Odour threshold	No information.
pH value	12,0 - 13,0 100 g/l 20 °C
Melting point/freezing point	4 °C
Freezing point	No information.
Initial boiling point and boiling range	167 °C
Flash point	91 °C
Evaporation rate	No information.
Flammability (solid, gas)	424 °C
Upper/lower flammability or explosive limits	2,5 %(V)
Upper/lower flammability or explosive limits	17 %(V)
Vapour pressure	0,5 hPa 20 °C
Vapour density	2,11
Density	1,015 g/cm3 20 °C
Relative density	2,11
Water solubility (g/l)	1.000 g/l 20 °C
Fat solubility (g/l)	log Pow: -2,3 at 25 °C - Bioaccumulation is not expected.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	23,5 mm2/s 20 °C
Dynamic viscosity	23,86 mPa.s 20 °C
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Forms explosive mixtures with air at intense temperatures.

10.2 Chemical stability



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Sensitive to air. Hygroscopic.

10.3 Possibility of hazardous reactions

May react exothermically with acrolein, nitriles, chlorosulfonic acid, hydrogen chloride gas, acetic acid, acetic anhydride, fragrant sulfuric acid, nitric acid, sulfuric acid mineral acids, vinyl acetate, oxidizing agents.

There is a risk of explosion or formation of flammable gases or vapors with sulfur, iron (III) compounds.

10.4 Conditions to avoid

Heat, flames and sparks. Strong heating.

10.5 Incompatible materials

Rubber, copper, copper alloys.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Oral - Rat - male and female - 1.089 mg/kg
(OECD Testing Guide 401)

Acute respiratory toxicity

Estimated acute toxicity Inhalation - 11.1 mg/l - vapor

Acute dermal toxicity

LD50 Dermal - Rabbit - 1.015 mg/kg
(RTECS)

Skin corrosion/irritation

Skin - Rabbit

Result: Abrasive - 4 h

(OECD Testing Guide 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Abrasive

(OECD Testing Guide 405)

Causes serious eye damage.

Specific Target Organ Toxicity – Single exposure

May cause respiratory tract irritation.

11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

semi-static test LC50 - Cyprinus carpio (Carp) - 349 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - 65 mg/l - 48 h

Toxicity to algae (algae)

static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 2.8 mg/l - 72 h

(OECD Testing Guide 201)

Toxicity to bacteria


static test EC10 - activated sludge - > 1.000 mg/l - 30 min

(OECD Testing Guide 209)

12.2 Persistence and degradability



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Biodegradability

Oxygenated (aerobic) - Exposure time 21 d

Result: > 90 % - Easily degradable.

(OECD Testing Guide 301 A)

Result: 90 - 100 % - Easily degradable.

(OECD Test Guide 301F)

Biochemical Oxygen Demand (BOD)

800mg/g

(IUCLID)

Theoretical oxygen demand

1,310 mg/g

(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

Biological effects:

Harmful effect due to pH change.

Discharge into the environment should be prevented.

SECTION 13: Disposal considerations

Waste treatment methods

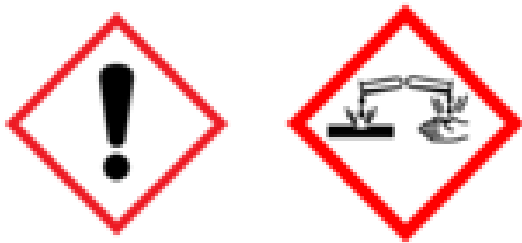
It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 2491	UN 2491	UN 2491	UN 2491	UN 2491
14.2 UN proper shipping name ETHANOLAMINE	ETHANOLAMINE	ETHANOLAMINE	ETHANOLAMINE	ETHANOLAMINE

14.3 Transport hazard class(es)

8 8 8 8 8



14.4 Packing group

III III III III III

14.5 Environmental hazards



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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

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.


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



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