

# Safety Data Sheet

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

Revision Date: 29.11.2022 Version 2

# TEKKİM

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

### 1.1 Product identifier

Catalog No. TK.930149.00000  
Product Name Pyridine  
Cas no 110-86-1

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

#### 1.2.1. Relevant identified uses

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)

Flammable liquids, Category 2  
Acute toxicity, Oral, Category 4  
Acute toxicity, By inhalation, Category 4  
Acute toxicity, Dermal, Category 4  
Skin irritation, Category 2  
Eye irritation, Category 2

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)

H225 Highly flammable liquid and vapour.  
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

Precautionary Statements (SEA)



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## Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

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	203-809-9
Molar mass	79.1 g/mol
Cas No	110-86-1
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.

### 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 (CO<sub>2</sub>).

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<sub>x</sub>). Flammable. Fire may cause evolution of: nitrogen oxides, nitrogenous gases. There may be a flashback. Be careful. Heavy-than-air vapors may form on the floor surface. In case of fire, dangerous flammable gases or vapors may develop. Forms explosive mixtures with air at atmospheric temperature.

### 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.



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## 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.

## 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. 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

Pyridine	(110-86-1)
TWA (8 Hours)	5 ppm 15 mg/m <sup>3</sup>

### 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

In contact with splash

Glove material : butyl rubber

Glove thickness: 0.7 mm

Absorption time: > 240 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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Flame retardant antistatic protective clothing.

## 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	Characteristic
Odour threshold	0,0001 - 20,1 mbp
pH value	8,0 - 9,0 20 °C
Melting point/freezing point	-42 °C
Freezing point	No information.
Initial boiling point and boiling range	115 °C
Flash point	20 °C
Evaporation rate	12,7
Flammability (solid, gas)	900 °C
Upper/lower flammability or explosive limits	1,8 %(V)
Upper/lower flammability or explosive limits	12,4 %(V)
Vapour pressure	26,7 hPa 25 °C
Vapour density	2,73
Density	0,98 g/cm <sup>3</sup> 20 °C
Relative density	No information.
Water solubility (g/l)	1.000 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: 0,64 20 °C - Bioaccumulation is not expected.
Auto-ignition temperature	No information.
Decomposition temperature	490 °C

## Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	0,88 mPa.s 25 °C
Explosive properties	Not classified as explosive.
Oxidising properties	none

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

Vapors may form explosive mixture with air.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

Risk of explosion with perchloric acid, nitrogen oxides, halogen-halogen compounds.

There was a risk of explosion or formation of flammable gases or vapors with chlorosulfonic acid, chromium (VI) oxide, acid anhydrides, odorous sulfuric acid, oxidizing agents, perchromates, nitric acid, nitrogen dioxide.

They can give exothermic reaction with fluorine, sulfuric acid, silver perchlorate.

### 10.4 Conditions to avoid

In case of warming.

### 10.5 Incompatible materials

Rubber, various plastics, various metals.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information



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## 11.1 Information on toxicological effects

Acute oral toxicity  
LD50 Oral - Rat - 1.500 mg/kg  
(ECHA)

Acute respiratory toxicity  
LC50 Inhalation - Rat - male - 4 h - 17.1 mg/l  
(US-EPA)

Acute dermal toxicity  
LD50 Dermal - Rabbit - > 1.000 - 2.000 mg/kg  
(OECD Testing Guide 402)

Skin corrosion/irritation  
Skin - Rabbit  
Minor skin irritation - 24 h

Serious eye damage/eye irritation  
Eyes - Rabbit  
Result: Irritating to eyes. - 24 h  
(ECHA)

## 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 EC50 - Danio rerio (zebrafish) - 560 - 1.000 mg/l - 96 h  
(OECD Testing Guide 203)

Toxicity to daphnia and other aquatic invertebrates  
EC50 - Daphnia magna (Water flea) - 320 mg/l - 48 h  
(OECD Testing Guide 202)

Toxicity to algae (algae)  
static test EC50 - Pseudokirchneriella subcapitata - 320 mg/l - 72 h  
(OECD Testing Guide 201)

### 12.2 Persistence and degradability

Biodegradability  
oxygenated ( aerobic ) - Exposure time 28 d  
Result: 97% - Easily degradable.  
(OECD Testing Guide 301 B)

### 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

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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## SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
<b>14.1 UN number</b> UN 1282	UN 1282	UN 1282	UN 1282	UN 1282
<b>14.2 UN proper shipping name</b> PYRIDINE	PYRIDINE	PYRIDINE	PYRIDINE	PYRIDINE

### 14.3 Transport hazard class(es)

3 3 3 3 3



### 14.4 Packing group

II II II II II

### 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

H225 Highly flammable liquid and vapour.

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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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