

# Safety Data Sheet

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

Revision Date: 07.09.2022 Version 2

# TEKKİM

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

### 1.1 Product identifier

Catalog No. TK.201793.00000  
Product Name Adipic acid  
Cas no 124-04-9

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

#### 1.2.1. Relevant identified uses

Pharmaceutical production. Cosmetic raw material. 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)

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)

WARNING

Hazard Statements (SEA)

H319 Causes serious eye irritation.

Precautionary Statements (SEA)

Prevention

P264 Wash skin thoroughly after handling.

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

Intervention

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

P337+P313 If eye irritation persists: Get medical advice/attention.

## SECTION 3: Composition/information on ingredients


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

### 3.1 Maddeler

EC No 204-673-3  
Molar mass 146.14 g/mol



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Cas No 124-04-9  
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* Provide fresh air..

*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 (CO2).

*Unsuitable extinguishing media*

There is no restriction for this item.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides. Flammable. 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*

In case of fire: Wear self-contained breathing apparatus..

### 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. 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*



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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

Safety glasses

##### Hand protection

Hand protection

in full contact

Glove material : Nitrile rubber

Glove thickness: 0.11 mm

Absorption time: > 480 minutes

In contact with splash

Glove material: Nitrile rubber)

Glove thickness: 0.11 mm

Absorption time: > 480 minutes

Gloves to be used must comply with EC directive 89/686/EEC specifications and EN 374 standards.

##### Other skin protection

Protective clothing.

##### Respiratory protection

Required when dusts occur.


Recommended filter type : P2 filter

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties



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Physical state	Solid
Colour	White
Odour	Odorless
Odour threshold	Not applicable.
pH value	2,0 - 3,0 25 g/l 25 °C
Melting point/freezing point	150 - 154 °C
Freezing point	No information.
Initial boiling point and boiling range	337,5 °C 1.013 hPa
Flash point	196 °C
Evaporation rate	No information.
Flammability (solid, gas)	> 400 °C
Upper/lower flammability or explosive limits	No information.
Upper/lower flammability or explosive limits	No information.
Vapour pressure	0,097 hPa 20 °C
Vapour density	No information.
Density	No information.
Relative density	No information.
Water solubility (g/l)	23 g/l at 25 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	LogPow : 0,093 - Bioaccumulation is not expected.
Auto-ignition temperature	No information.
Decomposition temperature	338 °C
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Explosive not classified.
Oxidising properties	none

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

Risk of dust explosion. 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

Violent reactions possible with bases, strong oxidizing agents, reducing compounds.

### 10.4 Conditions to avoid

Powerful heating.

### 10.5 Incompatible materials

mild steel

### 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 - 5,560 mg/kg  
(OECD Test Guideline 401)

Acute respiratory toxicity  
LC50 Inhalation - Rat - male and female - 4 h - > 7.7 mg/l  
(OECD Test Guideline 403)

Acute dermal toxicity  
LD0 Dermal - Rabbit - male and female - 7,940 mg/kg  
(ECHA)

Skin corrosion/irritation  
Skin - Rabbit  
Result: slight irritation  
(OECD Test Guideline 404)

Serious eye damage/eye irritation  
Eyes - Rabbit  
Result: Irritating to eyes. - 24h  
(OECD Test Guideline 405)

## 11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish  
LC50 - Pimephales promelas (Carp juvenile) - 97 mg/l - 96 h  
(ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates  
LC50 - Daphnia magna (Water flea) - 46 mg/l - 48 h  
(OECD Test Guideline 202)

Toxicity to algae (algae)  
static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 59 mg/l - 72 h  
(OECD Test Guideline 201)

Toxicity to bacteria  
static test EC50 - activated sludge - 4.747 mg/l - 3 h  
(OECD Test Guideline 209)

### 12.2 Persistence and degradability

Biodegradability  
oxygenated (aerobic) - Exposure time 30 d  
Result: 83% - Easily degradable.  
(OECD Test Guideline 301D)

Theoretical oxygen demand  
1,423 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.



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## 12.6 Other adverse 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
<b>14.1 UN number</b>				
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<b>14.2 UN proper shipping name</b>				
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.
<b>14.3 Transport hazard class(es)</b>				
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### 14.4 Packing group

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<b>14.5 Environmental hazards</b>				
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

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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