

S a f e t y D a t a S h e e t
According to Regulation (EC) 1907/2006

152342 **Adipic Acid, 99% PS**

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Adipic Acid

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

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2. Identification of dangers

Irritating to eyes.

3. Component Composition/Information

Name: Adipic Acid

Formula: $(\text{CH}_2\text{CH}_2\text{COOH})_2$ M.=146,14 CAS [124-04-9]

EC number (EINECS): 204-673-3

EC index number: 607-144-00-9

4. First aid

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water. Carbon dioxide (CO_2). Foam. Dry powder.

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:

Combustible.

5.4 Protective equipment:

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

6.2 Precautions for care of the environment:

6.3 Methods for collection/cleaning:

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. Dry atmosphere. Atmospheric temperature.

8. Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

VLA-ED: 5 mg/m³

8.3 Respiratory protection:

If dust forms, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

The supplier of the protection equipment must specify the type of protection to be worn when handling the substance or preparation, including the type of material and the breakthrough time of the material, with regard to the amount and duration of exposure.

9. Physical and chemical properties

Appearance:

White solid.

Odour:

Odourless.

Boiling point: 337°C (de

Melting point: 152°C

Flash point: 196°C

Self-ignition temperature: 420°C

Vapour pressure: <0,001 mbar(20

Density (20/4): 1,36

Solubility: 15 g/l in water at 20°C

10. Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

10.3 Hazardous decomposition products:

10.4 Complementary information:

11. Toxicological information

11.1 Acute toxicity:

LD₅₀ intraperitoneal rat: 275 mg/kg

LD₅₀ oral mouse: 1900 mg/kg

11.2 Dangerous effects for health:

If dust inhaled: Irritations to the respiratory tracts.

Upon contact with the skin: irritations.

Through contact with the eyes: irritations.

If swallowed: Irritations to the mucosae, gastro-intestinal disorders.

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Mobility:

Repartition: $\log P(\text{oct}) = 0,08$

12.2 Ecotoxicity:

12.1.1 - EC_{50} test (mg/l):

Fish (*P. promelas*) = 97 mg/l; Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment = ----

Risk for the land environment = ----

12.2.3 - Observations:

The ecotoxicity is due to the pH deviation.

12.3 Degradability:

12.3.1 - Test: $BOD_5 = 0,598$ g/g

DBOD 8D% of ThOD 5/d = 1423 g/g

12.3.2 - Biotic degradation classification:

BOD_5/COD Biodegradability = ----

12.3.3 - Abiotic degradation depending on pH: -----

12.3.4 - Observations:

Biodegradable product.

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk = -----

12.4.3 - Observations:

Non-bioaccumulable product.

12.5 Other possible effects on the environment:

Toxic due to acidity in the disposal area.

13. Considerations regarding elimination

13.1 Substance or preparation:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country. In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes.

Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

14. Information concerning transport

15. Mandatory information

15.1 Labelling as per REACH

Symbols: ^{XI}


Danger indications: Irritant

Phrases R: 36 Irritating to eyes.

EC index number: 607-144-00-9

16. Other information

Review number and date: 1 07.06.09

In respect of the previous review, changes have been made to the following sections: 8.

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.