

Safety Data sheet

According to Directive 1907/2006

0108 ADIPIC ACID

Creation Date: 01/12/2010 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 0108 Product name: ADIPIC ACID Use of the substance: Analysis and chemical-pharmaceutical production

Company/undertaking identification

QUALITY CHEMICALS, SL - C/Fornal 35. Pol. Ind. Can Comelles Sud 08292 ESPARREGUERA ESPAÑA Tel. 937709730 Fax. 937709337 e-mail: dtecnica@qualitychemicals.com

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Quality Chemicals S.L. Tel. +34 937709730 Only in business hours. Instituto Nacional de Toxicología *Madrid* Tel:915620420 Chemtrec: 800-424-9300

2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

36 Irritating to eyes.

Labelling in accordance with directive 1272/2008



H-phrases

319 Causes serious eye irritation.

P-phrases

305+351 If in eyes: Rinse cautiously with water for several minutes.

338 Remove contact lenses, if present and easy to do. Continue rinsing.

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Signal word : WARNING

IRRITANT

R-phrases:
Irritating to eyes.

3. Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 124-04-9

Molecular Weight: 146,14

Chemical formula: $\text{HOOC}-(\text{CH}_2)_4-\text{COOH}$

EC-Index-No.: 607-144-00-9

EC-No.: 204-673-3

R-phrases 36

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

Call the ophthalmologist

After swallowing:

Drink lots of water

Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Water

Dust

Foam

Carbon dioxide

Special risks:

Combustible

Danger of dust explosion

Steam heavier than air

Ambient fire may liberate hazardous vapours

It forms explosive mixtures with air

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

Other information:

Precipitate emergent steam with water

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Ventilation in closed spaces

Avoid contact with the substance

Avoid dust formation

Do not inhale dust

Procedures for cleaning/absorption:

Dry cleaning. Proceed to the elimination of any waste.

Rinse.

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed

Dry place.

8. Exposure controls/personal protection

Exposure limit control

TLV-TWA: 5 mg/m³

Personal protective equipment:

Respiratory protection:

Necessary respiratory protection in the presence of dust

Hand protection:

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Skin and body protection:

Suitable protective clothing

Other protective equipment:

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands and face when the work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid

Colour: Colourless

Odour: Odourless

pH value: 2.7 (25 g/l H₂O 25°C)

Melting point: 152°C

Boiling point: 337°C

Ignition temperature: 405°C

Flash point: 196°C

Vapour pressure: 0.097 hPa

Solubility: 15 g/l water (20°C)

log P(ow): 0.081

10. Stability and reactivity

Substances to be avoided:

Strong oxidizing agents.

Bases.

Alcohols.

Reducing agents.

Aldehydes.

Further information:

Possible powder explosion.

Incompatible with various metals and metal alloys.

11. Toxicological information

Acute toxicity:

LC50 (inhalation, rat): >7.7 mg/l/4h; DL50 (oral, rata): aprox. 5700 mg/kg

After eye contact:

Irritation

After inhalation:

Irritation of: respiratory tract

Coughing

After swallowing:

Irritations of mucous membranes in the mouth

Irritations of pharynx

Irritations of oesophagus

Irritations of gastrointestinal tract

Further toxicological information:

Take the usual precautions for handling chemical products

12. Ecological information

Fishes: *Leuciscus idus* CL50: 230 mg/l/96h

Daphnia: *Daphnia magna* EC50: 86 mg/l/48h

Algae: *Desmodesmus subspicatus* IC50: 31 mg/l/72h

Bacteria: *Ps. putida* EC50: 92 mg/l/17h

Log P(ow): 0.081

BOD5 0.598 g/g

TOD 1.423 g/g

Biodegradability: High

Bioaccumulation: Bioaccumulation is not expected

Other harmful effects:

Do not allow to enter waters, waste water, or soil

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.

Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.
For contaminated packaging the same measures must be adopted as for the contaminated product.
Not contaminated packaging must be disposed of as domestic residues or recycled material.
European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

Sea transport IMDG

Air transport ICAO-IATA-DGR

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3

36 Irritating to eyes.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.