

## Safety Data sheet

According to Directive 1907/2006

### 0128 FUMARIC ACID

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

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

### Identification of the product

Catalogue No: 0128 Product name: FUMARIC ACID Use of the substance: Analysis and chemical-pharmaceutical production. REACH registration Nr.: 01-2119485492-31-0000

### 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

### Emergency telephone No.

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

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## 2. Hazards identification

Labelling in accordance with directive 1907/2006



#### R-phrases

36 Irritating to eyes.

#### S-phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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.

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### 3. Composition/information on ingredients

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

CAS-No.: 110-17-8

Molecular Weight: 116,07

Chemical formula: HOOC-CH=CH-COOH

EC-Index-No.: 607-146-00-X

EC-No.: 203-743-0

R-phrases 36

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

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### 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

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### 5. Fire-fighting measures

**Suitable extinguishing media:**

Water

Dust

Foam

Carbon dioxide

**Special risks:**

Combustible

Ambient fire may liberate hazardous vapours

Danger of dust explosion

**Special protective equipment for fire fighting:**

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

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

**Other information:**

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

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### 6. Accidental release measures

**Person-related precautionary measures:**

Avoid contact with the substance

Do not inhale dust

Ventilation in closed spaces

**Procedures for cleaning/absorption:**

Dry cleaning. Proceed to the elimination of any waste.

Rinse.

To avoid the inert dust formation

**Environmental protection measures:**

Do not send it to the sewerage system

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## 7. Handling and storage

Handling: Without other exigencies

**Storage:**

Well closed

Dry place.

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## 8. Exposure controls/personal protection

Exposure limit control

MAK: 6 mg/m<sup>3</sup>

**Personal protective equipment:**

**Respiratory protection:**

Necessary respiratory protection in the presence of dust

**Hand protection:**

Needed

Protection gloves:

Nitrile rubber

**Eye protection:**

Needed

**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

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## 9. Physical and chemical properties

Physical state: Solid

Colour: White

Odour: Odourless

pH value: 2,1 (5 g/l H<sub>2</sub>O)

Melting point: 295°C

Ignition temperature: 375 °C

Flash point: 230°C

Vapour pressure: <0,001 hPa

Solubility: 4,9 g/l (water)

log P(ow): 0,33

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## 10. Stability and reactivity

**Quality Chemicals, S.L.**

Inscrita en el Registro Mercantil de Barcelona,  
tomo 30166, folio 195, Sección General, hoja 169845.  
Identificación fiscal ES B61403242

**Substances to be avoided:**

Strong oxidizing agents.

**Hazardous decomposition products:**

Toxic gases.

**Further information:**

Strong heating (decomposition).

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## 11. Toxicological information

**Acute toxicity:**

LD50 (dermal, rabbit): 20000 mg/kg; LD50 (oral, rat): 9300 mg/kg

**After eye contact:**

Irritation

**After skin contact:**

Irritations

**After inhalation:**

Irritation of: respiratory tract

**After swallowing:**

Nausea

**Further toxicological information:**

No mutagenic properties suspected

No carcinogenic properties suspected

Other dangerous characteristics are not discarded

Take the usual precautions for handling chemical products

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## 12. Ecological information

Fishes: Danio rerio LC50: 245 mg/l /48 h

Daphnia: Daphnia magna EC50: 74 mg/l /24 h

Algae: Desmodesmus subspicatus IC50: 41 mg/l /72 h

Bacteria: Ps. putida CE10: 23 mg/l /6 h

Log P(ow): 0,33

BOD5 0,18

COD 0,72 g/g

TOD 0,827 g/g

Biodegradability: High

Bioaccumulation: No bioaccumulation is to be expected (log Pow<1).

**Other harmful effects:**

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

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## 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

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#### 15.Regulatory information

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#### 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.