

## Safety Data sheet

According to Directive 1907/2006

### 0132 MALEIC 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: 0132 Product name: MALEIC ACID Use of the substance: Chemical for synthesis. Analysis and chemical-pharmaceutical production. REACH registration Nr.: 01-2119488705-25-0014

### 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

---

## 2. Hazards identification

Labelling in accordance with directive 1907/2006



#### R-phrases

22 Harmful if swallowed.  
36/37/38 Irritating to eyes, respiratory system and skin.  
43 May cause sensitization by skin contact.

#### S-phrases

24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).  
37 Wear suitable gloves.  
46 If swallowed, seek medical advice immediately and show this container or label.

Labelling in accordance with directive 1272/2008



**H-phrases**

302 Harmful if swallowed.  
317 May cause an allergic skin reaction.  
319 Causes serious eye irritation.  
335 May cause respiratory irritation.  
315 Causes skin irritation.

**P-phrases**

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
305+351 If in eyes: Rinse cautiously with water for several minutes.  
338 Remove contact lenses, if present and easy to do. Continue rinsing.

Signal word : WARNING

HARMFUL

R-phrases:

Harmful if swallowed.  
Irritating to eyes, respiratory system and skin.  
May cause sensitization by skin contact.

---

### 3. Composition/information on ingredients

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

CAS-No.: 110-16-7

Molecular Weight: 116,07

Chemical formula: HOOC-CH=CH-COOH

EC-Index-No.: 607-095-00-3

EC-No.: 203-742-5

R-phrases 22; 36/37/38; 43

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

To cause vomit

Call the doctor

---

### 5. Fire-fighting measures

**Suitable extinguishing media:**

Water

Dust

Foam

Carbon dioxide

**Special risks:**

Combustible

Ambient fire may liberate hazardous vapours

**Special protective equipment for fire fighting:**

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

**Other information:**

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

---

## 6. Accidental release measures

**Person-related precautionary measures:**

Avoid contact with the substance

Avoid dust formation

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

---

## 7. Handling and storage

Handling: Without other exigencies

**Storage:**

Well closed

Dry place.

---

## 8. Exposure controls/personal protection

**Personal protective equipment:**

**Respiratory protection:**

Necessary respiratory protection in the presence of dust

**Hand protection:**

Protection gloves:

Nitrile rubber

**Eye protection:**

Needed

**Other protective equipment:**

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands when work is finished

Fulfill the commitments under local environmental protection legislation

---

## 9. Physical and chemical properties

Physical state: Solid

Colour: White

Odour: Characteristic

pH value: 1,3 (100 g/l H<sub>2</sub>O)

Melting point: 135°C

Vapour pressure: 30 hPa

Solubility: Agua: 788 g/l. Ethanol: 344 g/l. Ether: 75,7 g/l.

log P(ow): -0,48

---

## 10. Stability and reactivity

**Substances to be avoided:**

Not available.

**Hazardous decomposition products:**

Not available.

**Further information:**

Not available.

---

## 11. Toxicological information

**Acute toxicity:**

LC50 (inhalation, rat): > 720 mg/m<sup>3</sup>/lh. LD50 (oral, rat): 708 mg/kg.

**After eye contact:**

Irritation

**After skin contact:**

Irritations

**After inhalation:**

Irritations of the mucous membranes

Coughing

Dyspnoea

**After swallowing:**

Irritations of pharynx

Irritations of gastrointestinal tract

Irritations of mucous membranes in the mouth

Irritations of oesophagus

**Further toxicological information:**

The precautions adapted for chemical agents must be observed

---

## 12. Ecological information

Log P(ow): -0,48

BOD5 0,639 g/g

COD 0,797 g/g

TOD 0,83 g/g

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

**Other harmful effects:**

No ecological problems are to be expected when the product is handled and used with due care are attentio

---

## 13. Disposal considerations

**Product:**

Dispose as regulated in the communitary 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

UN: 3261  
Class: 8  
Packaging group: III  
Correct technical name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

### Sea transport IMDG

UN: 3261  
Class: 8/III  
Packaging group: III  
Correct technical name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

### Air transport ICAO-IATA-DGR

UN: 3261  
Class: 8  
Packaging group: III  
Correct technical name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.  
CAO: 864  
PAX: 860

---

## 15. Regulatory information

---

## 16. Other information

Full text of R phrases mentioned in sections 2 and 3

22 Harmful if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitization by skin contact.

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.