



## Safety Data Sheet According to Regulation (EU) 830/2015

### 1882 Maleic Acid

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

##### 1.1 Product identifier

Name:

Maleic Acid

##### Synonym:

(Z)-Butenedioic Acid, cis-1,2-Ethylenedicarboxylic Acid, Toxilic Acid

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

##### 1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

##### 1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

##### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

#### 2. Identification of dangers

##### 2.1 Classification of the substance or the mixture.

Acute Tox. 4

Eye Irrit. 2

STOT SE 3

Skin Irrit. 2

Skin Sens. 1

## 2.2 Label elements:

### Hazard Pictograms



### Signal word

#### Hazard statements

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.

#### Precautionary statements

- P264 Wash...thoroughly after handling.
- P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

## 2.3 Other hazards:

No further relevant information available.

## 3. Composition/information on ingredients

### 3.1 Substances

Name: Maleic Acid

Formula: HOOCCH=CHCOOH M.= 116,07 CAS [110-16-7]

EC number (EINECS): 203-742-5

EC index number: 607-095-00-3

### 3.2 Mixtures

## 4. First aid measures

### 4.1 Description of first aid measures

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

### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

##### **Swallowing:**

Drink large amounts of water. Induce vomiting. Call for medical help.

##### **Inhaling:**

Take the person out into the fresh air.

##### **Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

##### **Eyes:**

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. In the event of irritation, seek medical assistance.

### **5. Firefighting measures**

#### **5.1 Extinguishing media:**

Water. Carbon dioxide (CO<sub>2</sub>). Alcohol resistant foam. Dry powder.

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

Combustible. Keep away from sources of ignition.

#### **5.3 Advice for firefighters:**

Suitable clothing and footwear.

### **6. Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures:**

No special indications.

#### **6.2 Environmental precautions:**

Avoid pollution of the soil, water supplies and drains.

#### **6.3 Methods and material for containment and cleaning up:**

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

#### **6.4 Reference to other sections**

Not applicable

### **7. Handling and storage**

#### **7.1 Precautions for safe handling:**

No special indications.

#### **7.2 Conditions for safe storage, including any incompatibilities:**

Well sealed containers. Dry atmosphere.

#### **7.3 Specific end use(s)**

No more relevant data available

### **8. Exposure controls/personal protection**

### **8.1 Control parameters:**

Data not available.

### **8.2 Exposure controls**

No special indications.

Respiratory protection:

If dust forms, use suitable respiratory protection.

Hand protection:

Use suitable gloves

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

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

Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

## **9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Appearance: solid

Colour: White

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: 139 °C

Initial boiling point and boiling range:

N/A

Flash point: 127 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density: 1,59 g/ml

Solubility: 788 g/l in water ( 25 °C )

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

### **9.2 Other information**

No more relevant data available

## **10. Stability and reactivity**

### **10.1 Reactivity**

No specific data.

### **10.2 Chemical stability:**

No specific data.

### **10.3 Possibility of hazardous reactions**

No specific data.

### **10.4 Conditions to avoid:**

The product is chemically stable under standar ambient conditions (room temperature).

### **10.5 Incompatible materials:**

No specific data.

### **10.6 Hazardous decomposition products:**

No specific data.

## **11. Toxicological information**

### **11.1 Information on toxicological effects**

Acute toxicity:

LD50 oral rat : 708 mg/kg

LD50 skn rbt : 1.560 mg/kg

Dangerous effects for health:

The data we have are insufficient for correct toxicological assessment. Based on the physico-chemical properties, the likely dangerous characteristics are: Upon contact with the skin: irritations Through contact with the eyes: irritations Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Bacteria (Photobacterium phosphoreum) 55,9 mg/l

Classification:

Extr. toxic

#### **- Receptor medium:**

Risk for the water environment

Medium

Risk for the land environment

Low

#### **- Observations:**

The ecotoxicity is due to the pH deviation.

### **12.2 Persistence and Degradability :**

#### **- Test:**

#### **- Biotic degradation classification:**

BOD5/COD

Biodegradability

#### **- Abiotic degradation depending on pH:**

#### **- Observations:**

Biodegradable product.

### **12.3 Bioaccumulative potential:**

- **Test:**

- **Bioaccumulation:**

Risk

- **Observations:**

Non-bioaccumulable product.

### **12.4 Mobility in soil :**

Data not available.

### **12.5 Assessment PBT and MPMB :**

Data not available.

### **12.6 Other adverse effects:**

If suitable handling conditions are maintained, no ecological problems are to be anticipated.

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

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.

.

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. Transport information**

**14.1 UN number**

UN3261

**14.2 UN proper shipping name**

CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

**14.3 Transport hazard class(es)**

8

**14.4 Packing group**

ADR/IMDG: III

IATA: III

**14.5 Environmental hazards**

CONTAM. MAR

**14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical safety assessment**

Not applicable

**16. Other information**

**Other precautionary statements**

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Version and revision date : 5 07.10.2017

Date published: 07.10.2017

In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15

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.