

Safety Data sheet

According to Directive 1907/2006

0947 L-MALIC ACID

Creation Date: 00/00/0000 Revision date: 31/05/2017

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

Identification of the product

Catalogue No: 0947 Product name: L-MALIC 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

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

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.

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.: 97-67-6

Molecular Weight: 134,09

Chemical formula: $\text{HOOCCH}_2\text{CHOHCOOH}$

EC-No.: 202-601-5

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 physician if sickness persists

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

In case of fire, possible formation of toxic vapors

Special protective equipment for fire fighting:

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

6. Accidental release measures

Person-related precautionary measures:

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.

From 5°C to 30°C

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

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: ca. 2.3 (10 g/l H₂O)

Melting point: 104°C

10. Stability and reactivity

Substances to be avoided:

Strong oxidizing agents.

Alkaline hydroxides.

Strong bases.

Alkaline metals.

Hazardous decomposition products:

Carbon monoxide.

Further information:

To avoid heating.

Strong heating (decomposition).

11. Toxicological information

After eye contact:

Irritation

After skin contact:

Irritations

Further toxicological information:

Other dangerous characteristics are not discarded

The precautions adapted for chemical agents must be observed

12. Ecological information

Biodegradability: High

Bioaccumulation: Bioaccumulation is not expected

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

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.