

Revised on: 12.06.2017

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

1.1. Identification of the substance or preparation

Trade name: Maleic Acid pure BP

Article number: LC-10185

Synonyms: (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. Use of the substance/preparation:

- laboratory utilization
- analysis
- research
- fine chemistry

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

neoFroxx GmbH
Marie-Curie-Str. 3
D-64683 Einhausen
info@neofroxx.com

Further information obtainable from:

Dep. Quality Control

1.4. Emergency telephone number

+49 (6251) 989 24 - 0 (during normal business hours)

2. Hazards identification

2.1. Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008:

Acute Tox. 4

Eye Irrit. 2

STOT SE 3

Skin Irrit. 2

Skin Sens. 1

Hazard Pictograms:



Signal word: Warning

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.

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Precautionary statements:

P264 Wash thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapours/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.

Classification (67/548/CEE or 1999/45/CE):

Xn Harmful

R43

R36/37/38

R22

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

3. Composition / information on ingredients

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

4. First aid measures

4.1. General indications:

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

4.2. Inhaling:

Take the person out into the fresh air.

4.3. Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4. Eyes:

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

4.5. Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

5. Firefighting measures

5.1. Suitable fire-extinguishing means:

Water. Carbon dioxide (CO₂). Foam. Dry powder.

5.2. Fire-fighting means which must NOT be used:

No specific data.

5.3. Special risks:

Combustible. Keep away from sources of ignition.

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- 5.4. Protective equipment:
Suitable clothing and footwear.

6. Accidental release measures

- 6.1. Individual precautions:
No special indications.
- 6.2. Precautions for care of the environment:
Avoid pollution of the soil, water supplies and drains.
- 6.3. Methods for collection/cleaning:
Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

- 7.1. Handling:
No special indications.
- 7.2. Storage:
Well sealed containers. Dry atmosphere.

8. Exposure controls / personal protection

- 8.1. Technical protective measures:
No special indications.
- 8.2. Exposure limit control:
Data not available.
- 8.3. Respiratory protection:
If dust forms, use suitable respiratory protection.
- 8.4. Hand protection:
Use suitable gloves
- 8.5. Eye protection:
Use suitable goggles.
- 8.6. Individual hygiene measures:
Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.
- 8.7. Environmental exposure controls:
Fulfill the commitments under local environmental protection legislation.

9. 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

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Upper/lower flammability or explosive limits: N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density: N/A

Solubility: 788 g/l in water 25 °C

Partition coefficient: n-octanol/water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

10. Stability and reactivity

10.1. Conditions which should be avoided:

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

10.2. Matter which should be avoided:

No specific data.

10.3. Hazardous decomposition products:

No specific data.

10.4. Complementary information:

No specific data.

11. Toxicological information

11.1. Acute toxicity:

LD50 oral rat: 708 mg/kg

LD50 skn rbt: 1.560 mg/kg

11.2. 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. Ecological 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.

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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 possible effects on the environment:

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

13. Disposal considerations

13.1. Substance or preparation:

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.

13.2. 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. Overland (ADR):

Technical name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

UN 3261

Class: 8 CONTAM. MAR

Packaging group: III (E)

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14.2. By sea (IMDG):

Technical name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

UN 3261

Class: 8 CONTAM. MAR

Packaging group: III

14.3. By air (ICAI-IATA):

Technical name: Corrosive solid, acidic, organic, n.o.s.

UN 3261

Class: 8 CONTAM. MAR

Packaging group: III

Packaging instructions: CAO 864 PAX 860

15. Regulatory information

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

16. Other information

Other precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/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.

Labelling (65/548/CEE or 1999/45/CE):

R-phrases:

R43 May cause sensitisation by skin contact.

R36/37/38 Irritating to eyes, respiratory system and skin.

R22 Harmful if swallowed.

S-phrases:

S37 Wear suitable gloves.

S28a After contact with skin, wash immediately with plenty of water.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S24 Avoid contact with skin.

S46 If swallowed, seek medical advice immediately and show this container or label.

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Material Safety Data Sheet

According to 1907/2006/EC, Article 31

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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.