

according to Regulation (EC) No 1907/2006

Malonic acid, 100 g

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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

Malonic acid, 100 g

CAS No: 141-82-2 EC No: 205-503-0

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

### Use of the substance/mixture

Laboratory chemicals

### 1.3. Details of the supplier of the safety data sheet

Seller

Company name: CONATEX-DIDACTIC Lehrmittel GmbH

Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH Street: Im Stadtwald, Gebäude A1.2

Place: D-66123 Saarbrücken

Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232

e-mail: michael.bauer@carbolution-chemicals.de

Internet: www.carbolution-chemicals.de

**1.4. Emergency telephone** +49 (0)681 302-71232

number:

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: Xn - Harmful, Xi - Irritant

R phrases:

Harmful if swallowed.

Risk of serious damage to eyes.

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:
Harmful if swallowed.

Causes serious eye damage.

# 2.2. Label elements

### Hazardous components which must be listed on the label

Malonic acid

Signal word: Danger

Pictograms: GHS05-GHS07



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#### **Hazard statements**

H302 Harmful if swallowed.

H318 Causes serious eye damage.

**Precautionary statements** 

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Sum formula: C3H4O4
Molecular weight: 104,06

# **Hazardous components**

EC No	Chemical name	Quantity	
CAS No	Classification according to Directive 67/548/EEC		
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]		
205-503-0	Malonic acid	100 %	
141-82-2	Xn - Harmful, Xi - Irritant R22-41		
	Acute Tox. 4, Eye Dam. 1; H302 H318		

Full text of R-, H- and EUH-phrases: see section 16.

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### After inhalation

Provide fresh air.

# After contact with skin

Wash with plenty of water. Change contaminated clothing.

# After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

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

No data available

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.



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### 5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust

# Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

# 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.2. Exposure controls

#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

# Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

# Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

# **Hand protection**

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

### Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

# Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must



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be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

# **SECTION 9: Physical and chemical properties**

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

Physical state: solid
Colour: colourless

Odour: No data available

Test method

pH-Value: No data available

Changes in the physical state

Melting point: 132 °C
Initial boiling point and boiling range: No data available
Sublimation point: No data available
Softening point: No data available
Flash point: 172 °C

**Flammability** 

Solid: No data available
Gas: No data available
Lower explosion limits: No data available
Upper explosion limits: No data available
Ignition temperature: No data available

**Auto-ignition temperature** 

No data available Solid: Gas: No data available Vapour pressure: No data available Vapour pressure: No data available 1,6 g/cm<sup>3</sup> Density: Water solubility: No data available Partition coefficient: No data available Viscosity / dynamic: No data available Viscosity / kinematic: No data available Flow time: No data available Vapour density: No data available No data available Evaporation rate: No data available Solvent separation test: No data available Solvent content:

9.2. Other information

Solid content: No data available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No data available

# 10.3. Possibility of hazardous reactions



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No data available

#### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Oxidizing agents, strong.

### 10.6. Hazardous decomposition products

No data available

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

# Toxicocinetics, metabolism and distribution

Toxicological data are not available.

#### Acute toxicity

Acute toxicity, dermal.

CAS No	Chemical name							
	Exposure routes	Method	Dose	Species	Source			
141-82-2	Malonic acid							
	oral	ATE	500 mg/kg					

### Irritation and corrosivity

Irritating to eyes. Risk of serious damage to eyes.

# Sensitising effects

No data available

# Severe effects after repeated or prolonged exposure

No data available

# Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

# Specific effects in experiment on an animal

No data available

# Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### **Practical experience**

#### Observations relevant to classification

No data available

# **SECTION 12: Ecological information**

### 12.1. Toxicity

No data available

# 12.2. Persistence and degradability

No data available

# 12.3. Bioaccumulative potential

No data available

# 12.4. Mobility in soil

No data available

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### 12.5. Results of PBT and vPvB assessment

No data available

#### 12.6. Other adverse effects

No data available

# **Further information**

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation.

# Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures

of laboratory chemicals

Classified as hazardous waste.

# Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

#### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE

CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

# Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

# Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

### Inland waterways transport (ADN)

# Other applicable information (inland waterways transport)

No dangerous good in sense of these transport regulations.

# Marine transport (IMDG)

# Other applicable information (marine transport)

No dangerous good in sense of these transport regulations.

#### Air transport (ICAO)

#### Other applicable information (air transport)

No dangerous good in sense of these transport regulations.

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#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:



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# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

# **EU** regulatory information

#### Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

# **National regulatory information**

Water contaminating class (D): 3 - highly water contaminating

# **SECTION 16: Other information**

# Relevant R-phrases (Number and full text)

22 Harmful if swallowed.

41 Risk of serious damage to eyes.

# Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.

H318 Causes serious eye damage.