Vickers Laboratories Ltd - Safety Data Sheet

1841

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.1 Revision date: 16 April 2021
Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 1841

Product Name MALONIC ACID pure

CAS Number 141-82-2

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula CH₂ (COOH)₂ =104.06

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



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4hr) 11

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Serious eye damage/irritation, category 1 H318: Causes serious eye damage.

Ref: 1841

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements Causes serious eye damage.

Precautionary Statements

Avoid breathing dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Store locked up.

Section 3. Composition

3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Malonic Acid	141-82-2 205-503-0		<98%	Eye Dam. 1

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water until MEDICAL ATTENTION has been obtained. Eyes

Skin Thoroughly wash off skin with soap and water.

Remove from exposure. If breathing stops or shows signs of failing, apply artificial resuscitation. If breathing is difficult, give oxygen. OBTAIN MEDICAL ATTENTION. Inhalation

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Water spray, foam, dry powder or carbon dioxide.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards Can form explosive dust clouds.

5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Wear goggles, respirator, rubber boots and heavy rubber gloves.

6.2 Environmental precautions

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Sweep up, place in a bag and hold for waste disposal. Do not create dust. Ventilate area and wash spill site after

material pickup is complete.

Minor Spillage Sweep up, place in a bag and hold for waste disposal. Do not create dust. Ventilate area and wash spill site after

material pickup is complete.

6.4 Reference to other sections

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid creating dust. Wash throughly after handling.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8	Bhr TWA)	Short Term 15min period)		
Malonic Acid	141-82-2	<98%	-	-	-	-	

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection Wear NIOSH/MSHA-approved respirator.

Hand Protection Wear rubber gloves.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance White crystalline powder.

Odour No specific odour.

pH Not applicable

Boiling Point >140 °C

Melting Point 135 °C

Flash Point 157 °C (Closed cup)
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition 157 °C (Closed cup)
Not applicable
Not applicable
580 °C

Explosive Properties Can form explosive dust clouds.

Oxidising Properties No.

Vapour Pressure Not applicable

Relative Density 1.030

Water Solubility 766 g/L Not specified.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous

No data available.

10.4 Conditions to Avoid

Protect from moisture.

10.5 Incompatable Materials

Strong oxidising agents. Alkalis.

Hazardous Decomposition

In combustion emits carbon dioxide & carbon monoxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Causes serious eye damage. Eyes

LD50 Skin Not available LD50 Oral 1500 mg/Kg Rat

Inhalation Inhalation of dust may produce irritation of the eyes and respiratory tract. The powder may be harmful.

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information Symptons of exposure may include burning sensation, coughing, wheesing, shortness of breath,

Section 12. Ecological

12.1 Toxicity Not biodegradable: highly water contaminating. Known to be toxic to aquatic organisms: no data available.

LC50 Algal Not available LC50 Crustacea Not available LC50 Fish Not available 12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dissolve or mix the material with a combustible solvent. Burn in a chemical incinerator equipped with

afterburners and scrubbers.

Dissolve or mix the material with a combustible solvent. Burn in a chemical incinerator equipped with Contaminated Packaging

afterburners and scrubbers.

Section 14. Transport Information

14.1 UN Number Non-restricted Non-restricted 14.2 Proper Shipping Name

14.3 Transport classes

UN classification None Subsidiary hazard(s) None Transport category None

ADR Hazard ID Non-restricted **Tunnel Restriction Code** Non-restricted

14.4 Packing Group None

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

14.7 Transport in bulk Not transported in bulk.

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Serious eye damage/irritation, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements

Causes serious eye damage.

Precautionary Statements P261, P280, P305+P351+P338, P304+P340, P405

Avoid breathing dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Store locked up.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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