



KATALİZMED

İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

Malate dehydrogenase

1- Product name and supplier

-Product name: Malate dehydrogenase

-Chemical name: (L)-Malate:NAD⁺ oxidoreductase - EC 1.1.1.37

-Code: KMDH-110E

-Supplier: KATALİZMED İç ve Dış Ticaret San.LTD.ŞTI
Çınar Mah. 5003/2 Sk. No:3-5
İç Kapı No:510 Bornova /izmir
Hasan Tahsin 5281355470

-REACH N°: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

-Identified uses: Laboratory chemicals, Manufacture of substances

2- Hazard identification

-Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

-Label elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

-Other hazards - none



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3- Composition/information on ingredients

CAS-N°: 9001-64-3

EC-N°: 232-622-5

No components need to be disclosed according to the applicable regulations.

4- First aid measures

- Eyes contact** Flush eyes with water for at least 15 min and seek medical advice
- Skin contact** Flush area with plenty of water
- Inhalation** Provide fresh air. If breathing is difficult, obtain medical attention. If not breathing, give artificial respiration
- Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling and/or in section 11.

Indication of any immediate medical attention and special treatment needed
no data available

5- Fire-fighting measures

-Extinguishing media

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

-Special hazards arising from the substance or mixture

Nature of decomposition products not known.



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-Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

-Further information

no data available

6- Accidental release measures

-Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

-Environmental precautions

Do not let product enter drains.

-Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7- Handling and storage

-Handling

Work in mechanically exhausted area
Protective rubber or latex gloves needed
Wear safety glasses or goggles

-Storage

Store in a dry place at -20 °C in a firmly tighten recipient

8- Exposure controls/personal protection

-Control parameters

Components with workplace control parameters

-Exposure controls

Appropriate engineering controls

General industrial hygiene practice.



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Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the

concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9- Physical and chemical properties

Appearance	Yellowish powder, lyophilized
Odour	no data available
pH	no data available
Melting point/freezing point	no data available
Flash point	no data available
Evaporation rate	no data available
explosive limits	no data available

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Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available

10- Stability and reactivity

-Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed

-Chemical stability

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

-Possibility of hazardous reactions

no data available

-Conditions to avoid

no data available

-Incompatible materials

no data available

-Hazardous decomposition products

Other decomposition products - no data available

11- Toxicological information

Acute toxicity

no data available

Skin corrosion/irritation

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no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: Not available

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or

Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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12- Ecological information

-Toxicity

no data available

-Persistence and degradability

no data available

-Bioaccumulative potential

no data available

-Mobility in soil

no data available

-Results of PBT and vPvB assessment

no data available

-Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

-Other adverse effects

no data available

13- Disposal considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product



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14- Transport information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport

15- Regulatory information

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

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

no data available

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16- Other information

The information herein is based on the current extend of our knowledge and is believed to be correct but is provided without warranty of any kind. The recipient of our reagent is responsible for observing all applicable laws and regulations.