



KATALİZMED
İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

Ascorbate oxidase

1- Product name and supplier

- Product name:** Ascorbate oxidase from cucurbita sp.
- Chemical name:** L-Ascorbate: oxygen oxidoreductase - EC 1.10.3.3
- Code:** **KASCO-100E**
- 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

Acute toxicity, Oral (Category 5), H303 Skin irritation (Category 2), H315 Serious eye damage (Category 2), Toxic to reproduction (Category 1), H319 Reproductive toxicity (Category 1B), H360 Specific target organ toxicity, single exposure (Category 1), H370 Specific target organ toxicity, repeated exposure (Category 1), H372 Respiratory sensitization, (Category 1), H334

For the full text of the H-Statements mentioned in this Section, see Section 16.

Katalizmed İç ve Dış Ticaret San.LTD.ŞTI
Çınar Mah. 5003/2 Sk. Gümüş Plaza Optimus No:3-5
Bornova / İzmir / Turkey



KATALİZMED
İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger

Hazard statement(s)

H303 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child

H370 Causes damage to organs

H372 Causes damage to organs through prolonged or repeated exposure

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

-Other hazards - none

Precautionary statement(s)

P202: Do not handle until all safety precautions have been read and understood.

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

P271: Use only outdoors or in a well-ventilated area.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P270: Do not eat, drink or smoke when using this product

P264: Wash hands thoroughly after handling

P304+P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P314: Get medical advice/attention if you feel unwell

P305+P352+P362: If in eyes: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

P302+P352+P362: If in eyes: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

Katalizmed İç ve Dış Ticaret San.LTD.ŞTI
Çınar Mah. 5003/2 Sk. Gümüş Plaza Optimus No:3-5
Bornova / İzmir / Turkey



KATALİZMED
İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

P332+P313: IF SKIN irritation occurs: Get medical advice/attention.
P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: IF eye irritation persists: Get medical advice/attention.
P308+P3013: IF exposed or concerned: Get medical advice/attention.
P405: Store locked up.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P501: Dispose of contents/container in accordance with local/regional/national/international/regulation.

3- Composition/information on ingredients

Mixture

Chemical nature : Ascorbate oxidase
Concentration : approx. 17 %

CAS# 9029-44-1

Chemical nature: Boron content
Concentration: approx. 19 %
Boric acid : CAS# 10043-35-3
Sodium tetraborate : CAS# 1303-96-4

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

Katalizmed İç ve Dış Ticaret San.LTD.ŞTI
Çınar Mah. 5003/2 Sk. Gümüş Plaza Optimus No:3-5
Bornova / İzmir / Turkey



KATALİZMED
İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

-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.

-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

Katalizmed İç ve Dış Ticaret San.LTD.ŞTI
Çınar Mah. 5003/2 Sk. Gümüş Plaza Optimus No:3-5
Bornova / İzmir / Turkey



KATALİZMED
İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

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.

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 must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Katalizmed İç ve Dış Ticaret San.LTD.ŞTI
Çınar Mah. 5003/2 Sk. Gümüş Plaza Optimus No:3-5
Bornova / İzmir / Turkey



KATALİZMED
İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

Body Protection

Choose body protection in relation to its type, to the concentration and number of dangerous substances, and to the specific workplace., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

required when dust is generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepreneur must ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

9- Physical and chemical properties

Appearance	Light-blue powder, lyophilized
Odour	no data available
pH	8.0 (1%)
Melting point/freezing point	no data available
Flash point	no data available
Evaporation rate	no data available
explosive limits	no data available
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



KATALİZMED
İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

10- Stability and reactivity

-Reactivity

no data available

-Chemical stability

no data available

-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

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Katalizmed İç ve Dış Ticaret San.LTD.ŞTI
Çınar Mah. 5003/2 Sk. Gümüş Plaza Optimus No:3-5
Bornova / İzmir / Turkey



KATALİZMED
İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

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.

12- Ecological information

-Toxicity

no data available

-Persistence and degradability

Katalizmed İç ve Dış Ticaret San.LTD.ŞTI
Çınar Mah. 5003/2 Sk. Gümüş Plaza Optimus No:3-5
Bornova / İzmir / Turkey



KATALİZMED
İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

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

14- Transport information

RID/ADR

Non-hazardous for road transport.

IMDG

Katalizmed İç ve Dış Ticaret San.LTD.ŞTI
Çınar Mah. 5003/2 Sk. Gümüş Plaza Optimus No:3-5
Bornova / İzmir / Turkey



KATALİZMED
İç ve Dış Ticaret San. Ltd. Şti.

SAFETY DATA SHEET

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

Full text of H-Statements

H303: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H360: May damage fertility or the unborn child

H370: Causes damage to organs

H372: Causes damage to organs through prolonged or repeated exposure

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.