

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

ProductName : Pyruvate Dehydrogenase, from porcine heart

2. HAZARDS IDENTIFICATION

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS-No. | EC-No. | Classification | Concentration |
|---|-----------|---|---------------|
| Glycerol 56-81-5 | 200-289-5 | - | 50 % |
| Sucrose 57-50-1 | 200-334-9 | - | 30 % |
| p-tertiary-Octylphenoxy polyethyl alcohol 9002-93-1 | - | Xn, N, R22 - R41 - R51/53 | 0,3 % |
| Sodium azide 26628-22-8 | 247-852-1 | T+, N, R28 - R32 - R50/53 | 0,003 % |
| Tripotassium orthophosphate 7778-53-2 | 231-907-1 | Xi, R38 - R41 | 0,1 % |
| 2-Mercaptoethanol 60-24-2 | 200-464-6 | T, N, R23/24/25 - R38 - R41 - R43 - R50/53 | 0,012 % |
| Ethylene bis(oxyethylene nitrilo)tetra(acetic acid) 67-42-5 | 200-651-2 | - | 0,06 % |
| Edetic acid 60-00-4 | 200-449-4 | Xi, R36 - R52/53 | 0,04 % |
| Serum albumin 9048-46-8 | 232-936-2 | - | 0,9 % |
| Water 7732-18-5 | 231-791-2 | - | 18,59 % |

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

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Normal measures for preventive fire protection.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid

Safety data

pH 6,8

Melting point no data available

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong bases, Strong oxidizing agents, Strong acids

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

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.

Signs and Symptoms of Exposure

Nausea, Dizziness

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Target Organs Kidney

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

Labeling according to EC Directives

Further information:

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

16. OTHER INFORMATION

Text of R-phrases mentioned in Section 3

R22/24/25 Harmful if swallowed.

R28 Toxic by inhalation, in contact with skin and if swallowed.

R32 Contact with acids liberates very toxic gas.

R36 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

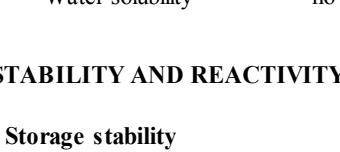
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Environmentally very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information

For R&D use only. Not for drug, household or other uses.



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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and guarantee is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee as to its use, from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.