

Safety Data Sheet

Biotin/KLH

Cat#: orb86092

1. PRODUCT INFORMATION

Product Name: Biotin/KLH

Catalog Number: orb86092

2. HAZARDS IDENTIFICATION

HAZARD DESCRIPTION

This product contains no hazardous constituents, or the concentrations of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29CFR 1910.1200 and the European Directive 91/155/EEC.

CLASSIFICATION SYSTEM

The classification was made according to the latest editions of the international substance lists, and expanded upon from company and literature data.

EMERGENCY OVERVIEW

OSHA Hazards: No known OSHA hazards

GHS Classification: Acute aquatic toxicity (Category 3)

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Pictogram: none

Signal Word: none

Hazard Statement(s): H402 Harmful to aquatic life

Precautionary Statement(s): none

HMIS CLASSIFICATION

Health Hazard: 0

Flammability: 0

Physical Hazards: 0

NFPA RATING

Health Hazard: 0

Fire: 0

Reactivity Hazards: 0

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.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Name: N-HYDROXYSUCCINIMIDBIOTIN

CAS: 35013-72-0

Name: keyhole limpet hemocyanin

CAS: 9013-72-3

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

4. FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. Seek medical attention if needed.

Skin Contact: Wash off with soap and plenty of water. Remove all contaminated personal protective equipment. Seek medical attention if needed

Eyes: Flush eyes with water as a precaution. Seek medical attention if needed.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Seek medical attention if needed.

5. FIREFIGHTING MEASURES

Conditions of flammability: Not flammable or combustible.

Suitable extinguishing media: Use carbon dioxide, extinguishing powder, water spray, or alcohol-resistant foam.

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective unit.

Special exposure hazards: No data available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not touch or walk through spilled material. Wear personal protective equipment.

Environmental Precautions: Do not let product enter drains. Discharge into the environment must be avoided.

Clean up methods: Soak up with absorbent material. Keep in suitable closed containers for disposal.

7. HANDLING AND STORAGE

HANDLING

Information for safe handling: Avoid contact with eyes and skin. Ensure adequate ventilation.

STORAGE

Recommended storage temperature: -20°C or 4°C, refer to enclosed product data sheet.

Conditions for safe storage: Keep container tightly closed. Store away from oxidizing agents.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

The product does not contain any substance with occupational hazard exposure limit values.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Respiratory protection not required. In case of brief exposure, use a chemical fume hood or a type OV/AG (US) or type AHEK (EU EN 14387) respirator cartridges.

Hand Protection: Handle with chemical resistant gloves. Wash and dry hands.

Eye Protection: Use safety glasses tested and approved under appropriate government standards.

Skin and body protection: Protective work clothing (lab coat).

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Form: Liquid

Color: Colorless to light yellow

Odor: no data available

Melting point: no data available

Boiling point: no data available

Flash point: no data available

Auto ignition point: no data available

Danger of explosion: no data available

Vapor Pressure: not applicable

Density: no data available

10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions

Possibility of hazardous reactions: No data available

Conditions to avoid: no data available

Materials to Avoid: Strong oxidizers

Dangerous products of Decomposition: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Classified based on available data

Skin: No irritating effect

Eyes: No irritating effect

Additional toxicological information: The product is not subject to OSHA classification according to internally approved calculation methods for preparations. When used and handled according to specifications, this product does not have any harmful effects according to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The ecological effects have been thoroughly investigated, but currently none have been identified.

General Notes: This product does not contain hazardous chemicals at concentrations of 1% or greater.

13. DISPOSAL CONSIDERATIONS

Recommendation: Must adhere to state and federal regulations. Smaller quantities can be disposed of with solid waste. Disposal must be made according to the regulations found in 40 CFR 261. This product is not considered a RCRA hazardous waste.

Contaminated Packaging: Disposal must be made according to state and federal regulations.

14. TRANSPORT INFORMATION

DOT REGULATIONS

Hazard Class: Non-hazardous for transport

LAND TRANSPORT

ADR/RID Class: Non-hazardous for transport

MARITIME TRANSPORT

IMDG Class: Non-hazardous for transport

AIR TRANSPORT

ICAO/IATA Class: Non-hazardous for air transport

15. REGULATORY INFORMATION

OSHA Hazards: Not known OSHA hazard

SARA Section 355 (extremely hazardous): None of the ingredients listed

SARA Section 313 (specific toxic chemical listings): None of the ingredients listed

CALIFORNIA PROPOSITION 65 COMPONENTS

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

The information provided on the Safety Data Sheet is to the best of our knowledge, information, and belief at the time of its publication. The information given is designed to be used as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. Conditions of use and suitability of the product for particular uses are beyond our control; therefore, the user assumes all risks of use of the product.