

Hemin (porcine)

Cat#: orb63242 (MSDS)

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

Product Name: Hemin (porcine)

2. HAZARDS 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 labelled in accordance with EC directives or respective national laws.

Other hazards - none

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures / Hazardous components:

Hemin (porcine):

Substance Name: Hemin (porcine)

Synonyme: Ferriprotoporphyrin IX chloride; Chloro(protoporphyrinato)iron(III); Chlorohemin;

Hemin(chloride); Chloroporphyrin IX iron(III)

Molecular Formula: C₃₄H₃₂ClFeN₄O₄

Molecular Weight: 651.94

CAS Number: 16009-13-5

EC-No.: 240-140-1

Concentration: 0.25 %

Classification: -

Triethanolamine:

Substance Name: Triethanolamine

Synonyme: 2,2,2-Nitrioltriethanol; Tris(2-hydroxyethyl)amine

Molecular Formula: C₆H₁₅N₃O₃

Molecular Weight: 149.19

CAS Number: 102-71-6

EC-No.: 203-049-8

Concentration: 50 %

Classification: -

4. FIRST AID MEASURES

After skin contact: Immediately wash skin with soap and plenty of water.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious.

After inhalation: Remove to fresh air. If not breathing give artificial respiration.

After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes.

5. FIRE-FIGHTING MEASURES

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

Specific hazards arising from the chemical: Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Iron oxides.

Special Firefighting Procedures: Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not let product enter drains.

Method for Cleaning Up: Keep in suitable, closed containers for disposal. Dispose contaminated material as waste according to section 13.

7. HANDLING AND STORAGE

Handling: Avoid formation of aerosols and contact with eyes, skin and clothing.

User Exposure: Avoid inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apr.).

Storage: Keep tightly closed. Store in a dry place at 4°C, protect from light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures: Ensure adequate ventilation and cleanable resistant tightly sealed working surfaces.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection: Handle with gloves to prevent skin contact.

Eye protection: Wear chemical safety goggles to prevent eye contact.

Skin and body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

General Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: liquid

Color: dark aubergine

Safety data:

pH: basic (10.3 +/- 0.2)

Melting point: No data available

Boiling point: No data available

Flash point: No data available

Ignition temperature: No data available

Thermal decomposition: No data available

Self-igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Vapor pressure: No data available

Solubility in / Miscibility with water: No data available

Segregation coefficient

(n-octanol / water): No data available

Decomposition temperature: >100°C

Viscosity, dynamic: No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions at 4°C for 12 months in the dark.

Possibility of hazardous reactions: No data available

Conditions to avoid: Heat, Light, strong oxidizing agents, strong acids.

Incompatible materials: No data available

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors such as carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 oral: 30 g/kg rat

LC50 inhalation: No data available

LD50 dermal: No data available

LD50 intravenous: No data available

LD50 subcutaneous: No data available

Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

Signs / Symptoms of exposure: Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Additional information: RTECS: No data available (Hemin)

RTECS: KL9275000 (Triethanolamine)

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability: Biodegradability (Triethanolamine)

Bioaccumulative potential: No data available

Mobility in soil: No data available

General notes: May cause long-term adverse effects in the aquatic environment. Do not flush into surface water or sanitary sewer system.

Results of PBT and vPvB assessment:

PBT: No data available

vPvB: No data available

13. DISPOSAL CONSIDERATIONS

Product: Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR / RID: Not dangerous goods

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

ICAO / IATA: Not dangerous goods

UN "Model Regulation": Not dangerous goods

15. REGULATORY INFORMATION

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

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

No data available

15.2 Chemical Safety Assessment: No data available