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MATERIAL SAFETY DATA SHEET (MSDS)**FERROZINE MONOSODIUM SALT (FOR BIOCHEMISTRY)****1 - Chemical Product**

Product Name: Ferrozine mono sodium salt

Synonym: None.

Cas no: 69898-45-9

Product Coad: F0099200025

Molecular Formula: C₂₀H₁₃N₄NaO₆S₂.H₂O

Molecular Weight: 510.48

2 - COMPOSITION, INFORMATION ON INGREDIENTS

| CAS# | Chemical Name | content | EINECS# |
|------------|-------------------------------------|---------|-----------|
| 69898-45-9 | Ferrozine Iron Reagent, Monohydrate | 95 | 274-196-3 |

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW Irritating to eyes, respiratory system and skin. The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye: Causes eye irritation. May cause chemical conjunctivitis.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Can produce delayed pulmonary edema.

Chronic: Effects may be delayed.

4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Exposure Limits CAS# 69898-45-9: Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: yellow-green - yellow crystalline powder

Odor: none reported

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density:

Molecular Formula: $C_{20}H_{13}N_4NaO_6S_2.H_2O$

Molecular Weight: 510.48

10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid:

Incompatible materials, dust generation, excess heat, strong oxidants.

Incompatibilities with Other Materials:

Strong acids, strong oxidizing agents.

Hazardous Decomposition Products:

Carbon monoxide, oxides of nitrogen, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported

11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 69898-45-9 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

Ferrozine Iron Reagent, Monohydrate - Not listed by ACGIH, IARC, or NTP.

12 - ECOLOGICAL INFORMATION

13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

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MATERIAL SAFETY DATA SHEET (MSDS)**FERROZINE MONOSODIUM SALT (FOR BIOCHEMISTRY)****14 - TRANSPORT INFORMATION**

IATA
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:
IMO
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:
RID/ADR Not regulated as a hazardous material.

15 - REGULATORY INFORMATION

European/International Regulations European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes. S 28A After contact with skin, wash immediately with plenty of water. S 37 Wear suitable gloves. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). WGK (Water Danger/Protection) CAS# 69898-45-9: No information available. Canada CAS# 69898-45-9 is listed on Canada's DSL List. CAS# 69898-45-9 is not listed on Canada's Ingredient Disclosure List. US FEDERAL TSCA CAS# 69898-45-9 is listed on the TSCA inventory.

16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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