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MATERIAL SAFETY DATA SHEET (MSDS)

SODIUM FERROCYANIDE DECAHYDRATE

1: Product Identification

Chemical Name: Sodium hexacyanoferrate (II) decahydrate
 CAS Registry Number: 14434-22-1

Product Code: S0194800500

Formula: $\text{Na}_4\text{Fe}(\text{CN})_6 \cdot 10\text{H}_2\text{O}$
 Synonym: Sodium ferrocyanide decahydrate; Ferrate(4-), hexacyano-, sodium

2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title compound	14434-22-1	100%	1mg/m ³ (as Fe - soluble)	10mg/m ³ (as Fe)

3: Hazards Identification

May be irritating to skin, eyes and respiratory tract. May be harmful through inhalation, ingestion and skin

Emergency Overview:
 absorption.

Primary Routes of Exposure: Ingestion, inhalation, skin.

Eye Contact: May cause mild to moderate irritation of the eyes.

Skin Contact: May cause slight to mild irritation of the skin.

Inhalation: May be irritating to the nose, mucous membranes and respiratory tract.

Ingestion: Approved by the FDA as an anti-caking additive to table salt in low concentration.

Acute Health Effects: May be irritating to skin, eyes and respiratory tract.

No information available on long term chronic effects. Hexacyanoferrate passes through the body with only

Chronic Health Effects:

slight dissociation. Z NATURFORSCH SECT C BIOSCI; 45 (6). 1990. 681-690

NTP: No

IARC: No

OSHA: No

4: First Aid Measures

Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need

Eye Exposure:

assistance in keeping their eye lids open. Get immediate medical attention.

Wash the affected area immediately with water. Remove contaminated clothing if necessary. Seek medical

Skin Exposure:

assistance if irritation persists.

Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty

Inhalation:

in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce

Ingestion:

vomiting only if directed by medical personnel.

5: Fire Fighting Measures

Flash Point: no data

Autoignition Temperature: no data

Explosion Limits: no data

Extinguishing Medium: carbon dioxide or dry powder

If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure

Special Fire Fighting Procedures:

self-contained breathing apparatus and full protective clothing.

Hazardous Combustion and If involved in a fire, toxic oxidation or decomposition products may form.

Decomposition Products:

Unusual Fire or Explosion Hazards: Non-flammable. No unusual fire or explosion hazard.

6: Accidental Release Measures

Spill and Leak Procedures: Sweep up the solid and dispose of properly.

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MATERIAL SAFETY DATA SHEET (MSDS)**SODIUM FERROCYANIDE DECAHYDRATE****7: Handling and Storage**

Handling and Storage: No special storage conditions required.

8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear protective clothing and gloves. Consult with glove manufacturer to determine the proper type of glove.
Handle the material in an efficient fume hood. Reaction with mineral acids can release toxic fumes of
Ventilation:
hydrogen cyanide.
If ventilation is not available a respirator should be worn. The use of respirators requires a Respiratory
Respirator:
Protection Program to be in compliance with 29 CFR 1910.134.
Handle the material in an efficient fume hood. Reaction with mineral acids can release toxic fumes of
Ventilation:
hydrogen cyanide.
Additional Protection: No additional protection required.

9: Physical and Chemical Properties

Color and Form: pale yellow xtl.
Molecular Weight: 303.88 (484.04)
Melting Point: no data
Boiling Point: no data
Vapor Pressure: not applicable
Specific Gravity: 1.458
Odor: none
Solubility in Water: 31.8g/100cc (20C)

10: Stability and Reactivity

Stability: air and moisture stable
Hazardous Polymerization: No hazardous polymerization
Conditions to Avoid: Do not heat with strong mineral acid.
Incompatibility: oxidizing agents, mineral acids, halogens and active metals.
Decomposition Products: iron oxide, nitrogen oxides and sodium oxide.

11: Toxicological Information

RTECS Data: No information available in the RTECS files.
Carcinogenic Effects: no data
Mutagenic Effects: no data
Tetratogenic Effects: no data

12: Ecological Information

Ecological Information: No information available

13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

14: Transportation

Shipping Name (CFR): Non-hazardous
Hazard Class (CFR): NA
Additional Hazard Class (CFR): NA
Packaging Group (CFR): NA
UN ID Number (CFR): NA
Shipping Name (IATA): Non-hazardous
Hazard Class (IATA): NA
Additional Hazard Class (IATA): NA
Packaging Group (IATA): NA
UN ID Number (IATA): NA

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MATERIAL SAFETY DATA SHEET (MSDS)**SODIUM FERROCYANIDE DECAHYDRATE****15: Regulatory Information**

TSCA: Not listed in the TSCA inventory.
SARA (Title 313): Title compound not listed
Second Ingredient: none

16. Other Information

Product Use: Laboratory Reagent.

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

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