#### SAFETY DATA SHEET



#### **SODIUM FERROCYANIDE**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	14434-22-1
EC number:	237-081-9
1.2 SYNONYMS:	<ul> <li>Sodium hexacyanoferrate(II)</li> <li>Disodium ferrocyanide</li> <li>Sodium ferrocyanide yellow</li> <li>Sodium ferrocyanide salt</li> <li>Sodium hexacyanoferrate</li> <li>Ferrocyanide of sodium</li> </ul>

#### **SECTION 2: Hazards identification:**

2.1 Classification of the substance	Classification according to
or mixture:	Regulation (EC) No 1272/2008 The
	substance is not classified
	according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation
	(EC) No 1272/2008
Hazard Pictograms:	No hazard pictogram is used.
Signal Word:	No signal word is used.
Hazard statements:	<b>H302:</b> Harmful if swallowed (if large
	quantities are ingested).
	<b>H319:</b> Causes serious eye irritation
	<b>H413:</b> May cause long-lasting
	harmful effects to aquatic life
Precautionary Statements:	<b>P264:</b> Wash hands thoroughly after
IY II II K I; H F WI I I	handling.
	<b>P270:</b> Do not eat, drink, or smoke
	when using this product.
	<b>P280:</b> Wear protective gloves/eye
	protection/face protection (if
	needed based on handling
	conditions).
	P301 + P312: If swallowed: Call a
	poison center or doctor if you feel
	unwell.
	<b>P305 + P351 + P338:</b> If in eyes: Rinse
	cautiously with water for several



	minutes. Remove contact lenses if present and easy to do. Continue rinsing.
2.3 Other hazards:	Tilliania.
Inhalation:	may cause respiratory irritation, coughing, or discomfort.
Ingestion:	may cause gastrointestinal irritation, nausea, vomiting, abdominal pain,
Skin Contact:	may cause irritation, redness.
Eye contact:	can cause severe irritation, redness, pain, and potential eye damage.
Chronic Exposure:	may lead to skin irritation, eye damage, or respiratory issues
Aggravation of pre-existing conditions:	may aggravate respiratory disorders (e.g., asthma) or skin conditions (e.g., dermatitis) may occur with prolonged or repeated exposure

# **SECTION 3: Composition/information on ingredients**

3.1 Chemical characterisation:	Substances
CAS No:	Description: 14434-22-1 SODIUM
	FERROCYANIDE
Identification number(s):	EC number: 237-081-9

#### **SECTION 4: First aid measures**

4.1 Description of first aid	
measures	
General information:	VI AVKINEK
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.



After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a
FOTD	physician.
4.2 Most important symptoms and effects, both acute and	No data available.
delayed:	T
4.3 Indication of any immediate	Treat symptomatically.
medical attention and special treatment needed:	

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media:	Carbon dioxide. Water spray.
	Alcohol-resistant foam.
5.2 Special hazards arising from	Formation of explosive dust/air
the substance or mixture:	mixtures is possible. In case of fire,
	carbon monoxide can be formed.
5.3 Advice for firefighters:	Wear fully protective suit, safety
	glasses and respiratory device.
	Cool tanks/drums with water
	spray/remove them into safety.
5.4 further information:	no data available

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
YOUN GHEWIIG	Remove all sources of ignition.  Evacuate personnel to safe areas.  Beware of vapours accumulating to form explosive concentrations.  Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.



6.3 Methods and material for	Take up spill into absorbent
containment and cleaning up:	material, e.g.: sand, earth,
	vermiculite, powdered limestone.
	Scoop absorbed substance into
	closing containers. Spill must not
FOTD	return in its original container.
	Clean contaminated surfaces with
LOID.	an excess of water. Wash clothing
	and equipment after handling.

## **SECTION 7: Handling and storage**

7.1 Precautions for safe handling:	For use in are with adequate
7.1 Precadions for safe flanding.	ventilation.
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	Empty containers pose a fire risk,
	evaporate the residue under a
	fume hood. Ground all equipment
	containing material
	Do not use in confined spaces.
	Electrostatic discharge protection.
	Minimize dust generation and
	accumulation.
	Avoid ingestion and inhalation.
7.2 Conditions for safe storage,	Store in original containers.
including any incompatibilities:	Keep containers securely sealed
	Store in a cool, dry, well-ventilated
	area.
	Store away from incompatible
	materials and foodstuff containers.
	Protect containers against physical
	damage and check regularly for
	leaks.
VOUD CHEMIC	Store in a dry and dark area.
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
storerooms and receptacies.	Containers which are opened must
	be carefully resealed and kept
	upright to prevent leakage.
7.3 Specific end uses:	no data available



## **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters	
	A
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good
- Fern	industrial hygiene and safety
	practice. Wash hands before
	breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks,
	wearing anti chemical gloves,
	rubber gloves, etc.
General protective and hygienic	Eyes, body and hand protection,
measures:	maintain indoor air unobstructed.
	Wear protective equipment.
	Respiratory protection: Required.
	Respiratory protections required.
Protection of hands:	Handle with gloves. Gloves must be
	inspected prior to use. Use proper
	glove removal technique (without
	touching glove's outer surface) to
	avoid skin contact with this
	product. Dispose of contaminated
	gloves after use in accordance with
	applicable laws. Wash and dry
	hands.
	Eye protection: Required
	Lye protection. Required
Protection of Body:	Complete suit protecting against
-	chemicals, Flame retardant
	antistatic protective clothing.

# SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Crystalline solid or powder
Colour:	Yellow or colorless
Odour:	Odourless
pH-value:	7
Melting point/Melting range:	65-70°C
Boiling point/Boiling range:	Not applicable
Flammability (solid, gaseous):	Non-Flammable



Ignition temperature:	Not applicable
Decomposition temperature:	100°C
Self-igniting:	Not applicable
Flash point:	Not applicable
Danger of explosion:	Not applicable
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	Negligible
Density at 20 °C:	1.86 g/cm <sup>3</sup> .
Relative density:	1.86
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with-	readily soluble
·water at 20 °C:	
Partition coefficient:(n-	No data available
octanol/water)	
Viscosity:	Not applicable

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous	No dangerous reactions known.
reactions	
10.4 Conditions to avoid	Concentrated acids
10.5 Incompatible materials	Concentrated acids
10.6 Hazardous decomposition	Carbon oxides, nitrogen oxides
products	

# **SECTION 11: Toxicological information**

11.1 Information on toxicological effects	
Acute Toxicity:	<b>LD50</b> (Oral, Rat) : no data available
	<b>LD50</b> (Dermal, Rabbit) : no data
	available
	<b>LC50</b> (Inhalation Rat) : no data
	available.
Skin corrosion/Irritation:	No data available



Serious eye damage/irritation:	No data available
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity -	No data available
single exposure:	
Specific target organ toxicity -	No data available
repeated exposure:	
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Biodegradability:	low biodegradability

# **SECTION 12: Ecological information**

12.1 Toxicity	LC50(fish): no data available(96hr)
Aquatic toxicity:	EC50(daphnia): no data
	available(48hr)
	EC50(algae): no data available(72hr)
12.2 Persistence and	low biodegradability
degradability:	
12.3 Bioaccumulative potential:	No data available
12.4 Mobility in soil:	No data available
12.5 Other adverse effects:	No data available

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, Mild Detergents, Diluted Acids, Isopropyl alcohol



#### **SECTION 14: Transport information**

14.1 UN-Number · ADR, ADN,	Not regulated
IMDG, IATA:	
14.2 UN proper shipping name ·	Not regulated
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	Not regulated
ADR, ADN, IMDG, IATA:	1076
14.4 Packing group · ADR, IMDG,	Not regulated
IATA:	
14.5 Environmental hazards:	No data available
14.6 Special precautions for user:	Handle responsibly.

#### **SECTION 15: Regulatory information**

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is not classified in
regulations/legislation specific	listed substance.
for the substance or mixture	
Directive 2012/18/EU	
Named dangerous substances:	This substance is not listed in the
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out.

#### **SECTION 16: Other information**

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.