

HI93740A-0 - Nickel LR Reagent A

US

SECTION 1. Identification of the	substance/mixture and of t	he company/undertaking.
1.1. Product identifier.		
Code. Product name.	HI93740A-0 Nickel LR Reagent A	
1.2. Relevant identified uses of the substance	e or mixture and uses advised agains	t.
Intended use.	Determination of Nickel in Wate	er Samples.
1.3. Details of the supplier of the safety data	sheet.	
Name. Full address. District and Country.	Hanna Instruments S.R.L. str. Hanna Nr 1 457260 loc. Nusfalau Romania Tel. (+40) 260607700 Fax. (+40) 260607700	(Salaj)
e-mail address of the competent person. responsible for the Safety Data Sheet.	sds@hannainst.com	
Product distribution by:	Hanna Intruments, Inc - 584 Pa Technical Service Contact Info	rk East, Woonsochet, Rhode Island, USA 02895 - rmation: +1-800-426-6287
1.4. Emergency telephone number.		
For urgent inquiries refer to.		nation: +1-800-424-9300 - CHEMTREC 24 Emergency Contact Information: +1-703-527-3887 -
SECTION 2. Hazards identification	on.	
2.1. Classification of the substance or mixtu	re.	

Classification and Hazard Statement. Serious eye damage, category 1 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3

Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.

Hazard pictograms:



Danger

Hazard statements: H318 Causes serious eye damage. H315 Causes skin irritation. H335 May cause respiratory irritation.

Precautionary statements:

Prevention: P261 P280

Avoid breathing dust, fume, gas, mist, vapours, spray. Wear protective gloves / eye protection / face protection.

Response:

@EPY 9.2.8 - SDS 1003



P302+P352

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IF ON SKIN: Wash with plenty of water and soap.

SECTION 2. Hazards identification. .../>>

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P302+P352 P305+P351+P338	IF IN EYES: Rins Continue rinsing.			
P310 P362	Immediately call a Take off contamir	a POISON CENTER or doctor.		
Storage:		naced oldrinity.		
Disposal:				
2.2. Other hazards.				
Information not availab	Information not available.			
SECTION 3. Comp	osition/inform	nation on ingredients.		
3.1. Substances.				
Information not relevan	t.			
3.2. Mixtures.				
Contains:				
Identification.	x = Conc. %.	Classification:		
	DPHOSPHATE 20 ≤ x < 30	Acute toxicity, category 4 H302, Serious eye damage, category 1 H318, Skin irritation, category 2 H315, Specific target organ toxicity - single exposure, category 3 H335		
EC. 231-767-1 INDEX.				
* There is a batch to ba	tch variation.			
The full wording of haze	ard (H) phrases is gi	iven in section 16 of the sheet.		
SECTION 4. First	aid measures.			
4.1. Description of first a EYES: Remove conta problem persists, seek	ict lenses, if preser	nt. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If		
	SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention			
INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorise doctor.				
Specific information on	symptoms and effect	both acute and delayed. cts caused by the product are unknown. ontained substances, see chap. 11.		
4.3. Indication of any important information not availab		tention and special treatment needed.		
SECTION 5. Firefi	ghting measu	res.		
5.1. Extinguishing media SUITABLE EXTINGUIS The extinguishing equip UNSUITABLE EXTING None in particular.	SHING EQUIPMENT pment should be of t	the conventional kind: carbon dioxide, foam, powder and water spray.		
5.2. Special hazards aris HAZARDS CAUSED B	-			
concentrations and in	the presence of a	s. The product is combustible and, when the powder is released into the air in sufficient a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by increment reaches high temperatures or through contact with sources of ignition.		

leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.



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SECTION 5. Firefighting measures. ... / >>

TETRASODIUM PYROPHOSPHATE Oxides of phosphorus, Sodium oxides.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Information not available.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations. HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (OSHA 29 CFR 1910.138). Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133). RESPIRATORY PROTECTION



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SECTION 8. Exposure controls/personal protection./>>

Use a NIOSH certified filtering facemask (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134) or equivalent device, whose class and effective need, must be defined according to the outcome of risk assessment. ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

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Appearance	solid powder
Colour	white
Odour	odourless
Odour threshold.	Not available.
pH.	4.7 - 5.0 pH, 20 g/L
Melting point / freezing point.	Not available.
Initial boiling point.	Not applicable.
Boiling range.	Not available.
Flash point.	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1.795
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information.	
Total solids (250°C / 482°F)	100,00 %

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

The powders are potentially explosive when mixed with air.

10.4. Conditions to avoid.

Avoid environmental dust build-up.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products. Information not available.



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SECTION 11. Toxicological information.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects.

TETRASODIUM PYROPHOSPHATE Serious eye damage, eye irritation, Eyes - rabbit, Result: Risk of serious damage to eyes.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: LC50 (Inhalation - mists / powders) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture: Not classified (no significant component). Not classified (no significant component). 5413,667 mg/kg Not classified (no significant component).

TETRASODIUM PYROPHOSPHATE LD50 (Oral). LD50 (Dermal).

> 1624 mg/kg Rat > 2000 mg/kg

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, and OSHA.

SKIN CORROSION / IRRITATION. Causes skin irritation.

SERIOUS EYE DAMAGE / IRRITATION. Causes serious eye damage.

RESPIRATORY OR SKIN SENSITISATION. Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY. Does not meet the classification criteria for this hazard class.

CARCINOGENICITY. Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY. Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE. May cause respiratory irritation.

STOT - REPEATED EXPOSURE. Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD. Does not meet the classification criteria for this hazard class.

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity.

TETRASODIUM PYROPHOSPHATE LC50 - for Fish. EC50 - for Crustacea.

1380 mg/l/96h 391 mg/l/48h Daphnia magna

12.2. Persistence and degradability.

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SECTION 12. Ecological information. .../>>

	TETRASODIUM PYROPHOSPHATE Solubility in water. Biodegradability: Information not available.	58500 mg/l	
	12.3. Bioaccumulative potential. Information not available.		
12.4. Mobility in soil.			
	TETRASODIUM PYROPHOSPHATE Partition coefficient: soil/water.	2.17	
12.5. Results of PBT and vPvB assessment.			
	On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.		
12.6. Other adverse effects.			
	Information not available.		

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number.

Not applicable.

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Information not relevant.



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SECTION 15. Regulatory information.

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

U.S. Federal Regulations.

Clean Air Act Section 112(b): No component(s) listed.

Clean Air Act Section 602 Class I Substances: No component(s) listed.

Clean Air Act Section 602 Class II Substances: No component(s) listed.

Clean Water Act – Priority Pollutants: No component(s) listed.

Clean Water Act – Toxic Pollutants: No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed.

DEA List II Chemicals (Essential Chemicals): No component(s) listed.

EPA List of Lists: 313 Category Code: No component(s) listed.

EPCRA 302 EHS TPQ: No component(s) listed.

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ: No component(s) listed.

EPCRA 313 TRI: No component(s) listed.

RCRA Code: No component(s) listed.

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations.

Massachussetts: No component(s) listed.

Minnesota: No component(s) listed.

New Jersey: No component(s) listed.

New York: No component(s) listed.

Pennsylvania:



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SECTION 15. Regulatory information. .../>>

No component(s) listed.

California: No component(s) listed.

Proposition 65:

This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

International Regulations.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention: None.

Substances subject to the Stockholm Convention: None.

Candadian WHMIS. Information not available.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit



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SECTION 16. Other information. ... / >>

- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 04 / 05 / 08 / 09 / 11 / 12 / 13 / 14.