

Safety Data Sheet

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

Section 1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code 25214

Product name HisPur Ni-NTA Superflow Agarose, 10 mL.

Company/undertaking identification

Life Technologies Corporation 5781 Van Allen Way PO Box 6482 Carlsbad, CA 92008 +1 760 603 7200 Life Technologies 5250 Mainway Drive Burlington, ONT CANADA L7L 6A4 800/263-6236

Thermo Fisher Scientific Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 United States 1.815.968.0747 or 1.800.874.3723

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

Exposure, or Accident. Call CHEMTRECOutside the USA + Canada: 1-703-741-5970

Country Specific Emergency Number (if available):

For research use only. Not for use in diagnostic procedures

SECTION 2: Hazards identification

GHS Classification

Signal Word DANGER

Hazard pictograms

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Health hazards

Health Hazards	
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (STOT) – repeated exposure	Category 1
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1B
Germ cell mutagenicity	Category 2

Physical hazards

GHS Physical Hazard	Flammable liquids
GHS Physical Hazard Category Number	Category 3

Environmental hazards

Acute aquatic hazard	Category 3
Chronic aquatic hazard	Category 3

Hazard Statements

- H226 Flammable liquid and vapor
- H317 May cause an allergic skin reaction
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H341 Suspected of causing genetic defects
- H350 May cause cancer
- H360 May damage fertility or the unborn child
- H372 Causes damage to organs through prolonged or repeated exposure
- H412 Harmful to aquatic life with long lasting effects

Precautionary Statements

Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P201 Obtain special instructions before use
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P273 Avoid release to the environment
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P284 In case of inadequate ventilation wear respiratory protection
- P264 Wash hands thoroughly after handling
- P233 Keep container tightly closed
- P272 Contaminated work clothing should not be allowed out of the workplace
- P202 Do not handle until all safety precautions have been read and understood
- P270 Do not eat, drink or smoke when using this product
- P243 Take action to prevent static discharges
- P240 Ground/bond container and receiving equipment
- P242 Use non-sparking tools
- P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment

Response

Revision date 22-Jun-2024 Product code 25214 P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P314 - Get medical advice/attention if you feel unwell

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Storage

P403 + P235 - Store in a well-ventilated place. Keep cool

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

Not Applicable

HMIS

<u> </u>				
Health	4 *			
Flammability	3			
Reactivity	0			

SECTION 3: Composition/information on ingredients

Chemical Name	CAS No.	Common name	EC No.	Weight-%
Nickel (II) sulfate hexahydrate (1:1:6)	10101-97-0	Not applicable	-	0.1-1
Ethyl alcohol	64-17-5	Not applicable	200-578-6	10-15

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Description of first aid measures

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Remove and

wash contaminated clothing and gloves, including the inside, before re-use.

Immediate medical attention is required.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 Eye contact

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediate medical attention is required.

Never give anything by mouth to an unconscious person. Do not induce vomiting Ingestion

without medical advice. Get medical attention if symptoms occur.

Remove to fresh air. If not breathing, give artificial respiration. Call a physician or Inhalation

poison control center immediately.

Notes to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

H226 - Flammable liquid and vapor H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H341 - Suspected of causing genetic defects H350 - May cause cancer H360 - May damage fertility or the unborn child H372 - Causes damage to organs through prolonged or repeated exposure H412 - Harmful to aquatic life with long lasting effects

Indication of any immediate medical attention and special treatment needed

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

No information available.

Special hazards arising from the substance or mixture No data

Hazardous Combustion Products No known hazardous decomposition products.

Advice for firefighters Standard procedure for chemical fires.

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)

Avoid contact with skin, eyes or clothing

Avoid breathing vapors or mists

Use personal protection equipment

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

See section 8 for more information

Environmental precautions

Prevent product from entering drains. Do not allow material to contaminate ground water system.

Methods and material for containment and cleaning up

Small spillage:. Allow to evaporate. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Ventilate the area.

Large spillage:. Dike for later disposal and cover with wet sand or earth. Immediately contact emergency personnel.

Reference to other sections

See section 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Always wear recommended Personal Protective Equipment. Do not get in eyes, on skin, or on clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Use personal protective equipment as required. See section 8 for more information.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end use(s)

For research use only.

SECTION 8: Exposure controls/personal protection

Control parameters

L	Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Ī	Nickel (II) sulfate	None	None	None	None
L	hexahydrate (1:1:6)				
Ī	Ethyl alcohol	1000 ppm	None	None	1000 ppm
L	-	1900 mg/m ³			

Chemical Name Brazil - OEL - TWAs (LTs)		Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Nickel (II) sulfate hexahydrate 0.1 mg/m ³		None	None
(1:1:6)	-		
Ethyl alcohol 780 ppm		None	None
-	1480 mg/m ³		

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Engineering Measures Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal Protective Equipment

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

Hand protection Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Eye protection Tight sealing safety goggles.

Skin and Body Protection Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state liquid
Color No data
Odor No data
Molecular Weight No data
Melting point / melting range °C No data

Melting point / melting range°C No data°F No dataBoiling point / boiling range°C No data°F No data

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

Flash point

No data

No data

No data

Vo data

Flash point°CNo data°FNo dataAutoignition Temperature°CNo data°FNo dataDecomposition temperature°CNo data°FNo data

Evaporation rate
Viscosity
No data
Solubility
No data
Partition coefficient:
No data

n-octanol/water

Vapor PressureNo dataSpecific gravityNo dataRelative densityNo dataVapor densityNo dataExplosive propertiesNo dataOxidizing propertiesNo dataParticle characteristicsNo data

Other information

Information with regard to physical hazard classes

No information available

Other safety characteristics

No information available

SECTION 10: Stability and reactivity

Reactivity None known.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to avoid None known.

Incompatible materialsNo dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No known hazardous decomposition products.

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SECTION 11: Toxicological information

Information on toxicological effects

	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
ı	Nickel (II) sulfate hexahydrate	= 264 mg/kg (Rat)	No data available	No data available
	(1:1:6)	5 5 , ,		
ı	Ethyl alcohol	= 7060 mg/kg (Rat)	No data available	=116.9mg/L(Rat) =133.8mg/L(Rat)

Principal Routes of Exposure

Acute toxicity Data are conclusive but insufficient for classification.

Skin corrosion/irritation Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitization

May cause sensitization by inhalation and skin contact

Specific target organ toxicity Data are conclusive but insufficient for classification (STOT) – single exposure

Specific target organ toxicity May cause damage to organs through prolonged or repeated exposure (STOT) – repeated exposure

Carcinogenicity Contains a known or suspected carcinogen

Germ cell mutagenicity Product is or contains a chemical which may cause mutations in the germ cells of

humans.

Reproductive toxicity

May damage fertility or the unborn child

Aspiration hazard Data are conclusive but insufficient for classification

SECTION 12: Ecological information

Toxicity

Hazardous to the Aquatic Environment.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Nickel (II) sulfate hexahydrate (1:1:6)	No data available	No data available	No data available	No data available	No data available
Ethyl alcohol	No data available	Daphnia magna EC50=2 mg/L (48 h) Daphnia magna LC509268 - 14221 mg/L (48 h)	No data available	No data available	logPow-0.35

No information available. Mobility in soil

No information available. Persistence and degradability

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects No information available.

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

This product is subjected to UN special provision A58 (144): An aqueous solution containing 24% or less alcohol by volume is not subject to IATA Dangerous Goods Regulations

UN number or ID number 1993

UN proper shipping name Flammable liquid, n.o.s. (Ethanol)

Transport hazard class(es) 3 Ш Packing group

Environmental hazards

Not Applicable

Special precautions for user

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Not Applicable

Maritime transport in bulk according to IMO instruments

Not Applicable.

SECTION 15: Regulatory information

Component	US TSCA
Nickel (II) sulfate hexahydrate (1:1:6)	-
10101-97-0 (0.1-1)	
Ethyl alcohol	Listed
64-17-5 (10-15)	

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

US State Regulations

Chemical Name	Massachusetts - RTK (Right-to-Know)	New Jersey - RTK (Right-to-Know)	Pennsylvania - RTK (Right-to-Know)
Nickel (II) sulfate hexahydrate (1:1:6)	Listed	Listed	Listed
Ethyl alcohol	Listed	Listed	Listed

California Proposition 65

Proposition 65 lists ethanol in alcoholic beverages.

Chemical Name	CAS No.	Weight-%	<u>Category</u>
Nickel (II) sulfate	10101-97-0	0.1-1	Carcinogen
hexahydrate (1:1:6)			Developmental
			Male Reproductive
Ethyl alcohol	64-17-5	10-15	Carcinogen
·			Developmental

WHMIS Hazard Class

B3 - Combustible liquid D2A - Very toxic materials

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

National Regulations - Brazil

<u>Chemical Name</u>	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
Nickel (II) sulfate	10101-97-0	Not Listed	Group 1

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hexahydrate (1:1:6)			
Ethyl alcohol	64-17-5	Not Listed	Group 1

SECTION 16: Other information

Reason for revision SDS sections updated.

Revision number

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References

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/
- LOLI database: https://www.chemadvisor.com/loli-database

Abbreviations and acronyms

TWA - Time-Weighted Average

OELs - Occupational Exposure Limits

STEL - Short Term Exposure Limit

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

KECL - Korean Existing and Evaluated Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

CEPA - Canadian Environmental Protection Act

EPA - Environmental Protection Agency

OSHA - Occupational Safety and Health Administration of the US Department of Labor

IATA - International Air Transport Association

DOT - Department of Transportation

IMDG - International Maritime Dangerous Goods

ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

AIHA - American Industrial Hygiene Association

HMIS - Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED.INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR **PURPOSE**"

End of Safety Data Sheet

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