

## Safety Data Sheet

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name: Readiprep™ Nickel NTA Magnetic Beads  
Product number: 56000

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For research use only. Not intended for diagnostic or therapeutic use.

#### 1.3 Details of the supplier of the safety data sheet

Company: AAT Bioquest, Inc.  
Address: 5775 W Las Positas Blvd, Pleasanton, CA 94588  
Telephone: (408)-733-1055  
Fax: (408)-733-1304  
Email: [info@aatbio.com](mailto:info@aatbio.com)

#### 1.4 Emergency telephone number

Chemtrec (Within USA): 1-(800)-424-9300  
Chemtrec (Outside USA): 1-(703)-527-3887

### Section 2: Hazard identifications

#### 2.1 Classification of the substance or mixture

Flammable liquids: Category 3

#### 2.2 Label elements

Signal word: Warning  
Hazard statements: H226 - Flammable liquid and vapor  
Symbols/Pictograms:



Precautionary statements - prevention:

Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof [electrical/ventilating/lighting] equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

|                                      |                                                                                                                                                                                                     |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary statements - response: | IF ON SKIN (or hair): Take off Immediately all contaminated clothing.<br>Rinse SKIN with water [or shower].<br>In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. |
| Precautionary statements - storage:  | Store in a well-ventilated place. Keep cool.                                                                                                                                                        |
| Precautionary statements - disposal: | Dispose of contents/container in accordance with local/regional/national/international regulation.                                                                                                  |

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

|                                          |               |
|------------------------------------------|---------------|
| Hazards not otherwise classified (HNOC): | Not available |
|------------------------------------------|---------------|

### 2.4 Other information

|                |                |
|----------------|----------------|
| Other hazards: | Not Applicable |
|----------------|----------------|

## Section 3: Composition/information on ingredients

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### 3.1 Substances

|                   |                                      |
|-------------------|--------------------------------------|
| Chemical name:    | ReadiPrep™ Nickel NTA Magnetic Beads |
| CAS number:       | Not available                        |
| Molecular weight: | Not applicable                       |
| Formula:          | Not available                        |

## Section 4: First aid measures

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### 4.1 First-aid measures

|                                     |                                                                                                                                                                                                    |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice:                     | If symptoms occur, seek medical advice/attention.                                                                                                                                                  |
| Eye contact:                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.                                                                  |
| 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. |
| Inhalation:                         | Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.                                                                                         |
| Ingestion:                          | Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.                                                     |
| Self-protection of the first aider: | Use personal protective equipment.                                                                                                                                                                 |

### 4.2 Most important symptoms and effects, both acute and delayed

|           |                                   |
|-----------|-----------------------------------|
| Symptoms: | H226 - Flammable liquid and vapor |
|-----------|-----------------------------------|

### 4.3 Indication of any immediate medical attention and special treatment needed

|                     |                        |
|---------------------|------------------------|
| Note to physicians: | Treat symptomatically. |
|---------------------|------------------------|

## Section 5: Firefighting measures

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### 5.1 Suitable extinguishing media

|                                 |                                                        |
|---------------------------------|--------------------------------------------------------|
| Suitable extinguishing media:   | Water spray. Carbon dioxide (CO2). Foam. Dry chemical. |
| Unsuitable extinguishing media: | No information available.                              |

### 5.2 Specific hazards arising from the chemical

|                                             |                           |
|---------------------------------------------|---------------------------|
| Specific hazards arising from the chemical: | No data                   |
| Hazardous combustion products:              | No information available. |

### 5.3 Explosion data

|                                   |                           |
|-----------------------------------|---------------------------|
| Sensitivity to mechanical impact: | No information available. |
| Sensitivity to static discharge:  | No information available. |

### 5.4 Protective equipment and precautions for firefighters

|                                                        |                                        |
|--------------------------------------------------------|----------------------------------------|
| Protective equipment and precautions for firefighters: | Standard procedure for chemical fires. |
|--------------------------------------------------------|----------------------------------------|

## Section 6: Accidental release measures

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### 6.1 Personal precautions, protective equipment, and emergency procedures

|                       |                                                                                                                                                                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions: | ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing vapors or mists. Use non-sparking tools and equipment. Ensure adequate ventilation. Use personal protection equipment. See section 8 for more information |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.2 Environmental precautions

|                            |                                                |
|----------------------------|------------------------------------------------|
| Environmental precautions: | No special environmental precautions required. |
|----------------------------|------------------------------------------------|

### 6.3 Methods and material for containment and cleaning up

|                          |                                                       |
|--------------------------|-------------------------------------------------------|
| Methods for containment: | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up: | Soak up with inert absorbent material.                |

## Section 7: Handling and storage

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### 7.1 Precautions for safe handling

|                          |                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling: | Always wear recommended Personal Protective Equipment. Avoid contact with eyes, skin and clothing. Do not breathe vapors. When using do not smoke, eat or drink. Ground and bond containers when transferring material. See section 8 for more information. |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 7.2 Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage conditions:     | Keep in a dry, cool and well-ventilated place. Keep container tightly closed. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep in properly labeled containers. Store in accordance with local regulations. |
| Incompatible materials: | No information available.                                                                                                                                                                                                                               |

## Section 8: Exposure controls/personal protection

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### 8.1 Control parameters

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Exposure guidelines: | Ethyl alcohol: OSHA PEL 1000 ppm 1900 mg/m <sup>3</sup> ; OSHA PEL (Ceiling) None; ACGIH OEL (TWA) None; ACGIH OEL (STEL) 1000 ppm. Nickel (II) sulfate hexahydrate (1:1:6): OSHA PEL None; OSHA PEL (Ceiling) None; ACGIH OEL (TWA) None; ACGIH OEL (STEL) None. Brazil OEL — Ethyl alcohol: Brazil - OEL - TWAs (LTs) 780 ppm 1480 mg/m <sup>3</sup> ; Ceilings None; Skin Designations None. Nickel (II) sulfate hexahydrate (1:1:6): Brazil - OEL - TWAs (LTs) 0.1 mg/m <sup>3</sup> ; Ceilings None; Skin Designations None |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 8.2 Appropriate engineering controls

Engineering controls:

Ensure adequate ventilation, especially in confined areas.

### 8.3 Individual protection measures, such as personal protective equipment

Eye/face protection:

Tight sealing safety goggles.

Skin and body protection:

Wear laboratory coat for body protection.

Respiratory protection:

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice

## Section 9: Physical and chemical properties

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Physical state:

Liquid

Solubility in water:

Moderate

Appearance:

No information available.

Odor/odor threshold:

No data

pH:

No data

Melting point/freezing point:

No data

Boiling point:

No data

Flashpoint:

°C 36 °F 96.8

Liquid density:

No information available.

Evaporation rate:

No data

Upper flammability limit:

No data

Lower flammability limit:

No data

Vapor pressure:

No data

Vapor density:

No data

Specific gravity:

No data

Water solubility:

No information available.

Solubility in other solvents:

No data

Partition coefficient:

No data

Autoignition temperature:

No data

Decomposition temperature:

No data

Viscosity:

No data

Explosive properties:

No data

Oxidizing properties:

No data

## Section 10: Stability and reactivity

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Reactivity:

None known.

Chemical stability:

Stable under normal conditions.

Possibility of hazardous reactions:

Hazardous reaction has not been reported.

Hazardous polymerization:

No information available.

Conditions to avoid:

High temperature. Proximity to sources of ignition.

Incompatible materials:

Oxidizing agent. Acids. Bases.

Hazardous decomposition products:

No known hazardous decomposition products.

## Section 11: Toxicological information

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### 11.1 Information on likely routes of exposure

|               |                                                                                                                                              |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation:   | Ethyl alcohol: Inhalation LC50 = 116.9mg/L(Rat) = 133.8mg/L(Rat). Nickel (II) sulfate hexahydrate (1:1:6): Inhalation LC50 No data available |
| Eye contact:  | Serious eye damage/irritation: Data are conclusive but insufficient for classification                                                       |
| Skin contact: | Skin corrosion/irritation: Data are conclusive but insufficient for classification. Dermal LD50 No data available (both components)          |
| Ingestion:    | Ethyl alcohol: Oral LD50 = 7060 mg/kg (Rat). Nickel (II) sulfate hexahydrate (1:1:6): Oral LD50 = 264 mg/kg (Rat)                            |

### 11.2 Information on toxicological effects

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms: | Acute toxicity: Data are conclusive but insufficient for classification. Respiratory or skin sensitization: Data are conclusive but insufficient for classification. STOT – single exposure: Data are conclusive but insufficient for classification. STOT – repeated exposure: Data are conclusive but insufficient for classification. Carcinogenicity: Data are conclusive but insufficient for classification. Germ cell mutagenicity: Data are conclusive but insufficient for classification. Reproductive toxicity: May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility. Aspiration hazard: Data are conclusive but insufficient for classification |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                   |                           |
|-------------------|---------------------------|
| Chronic toxicity: | No information available. |
|-------------------|---------------------------|

### 11.4 Numerical measures of toxicity - product information

|                         |                           |
|-------------------------|---------------------------|
| Unknown acute toxicity: | No information available. |
|-------------------------|---------------------------|

## Section 12: Ecological information

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|                                |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ecotoxicity:                   | The environmental impact of this product has not been fully investigated. Ethyl alcohol: Toxicity to algae No data available; Toxicity to daphnia and other aquatic invertebrates: Daphnia magna EC50=2 mg/L (48 h) Daphnia magna LC50=268 - 14221 mg/L (48 h); Toxicity to fish No data available; Microtox Data No data available; log Pow logPow-0.35. Nickel (II) sulfate hexahydrate (1:1:6): all No data available |
| Persistence and degradability: | No information available.                                                                                                                                                                                                                                                                                                                                                                                                |
| Bioaccumulation:               | No information available.                                                                                                                                                                                                                                                                                                                                                                                                |
| Mobility:                      | No information available.                                                                                                                                                                                                                                                                                                                                                                                                |

## Section 13: Disposal consideration

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|                         |                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal of wastes:     | 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 any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations. |
| Contaminated packaging: | Do not reuse container.                                                                                                                                                                                                                                                                                                                                                                                   |

Other information:

None

## Section 14: Transport information

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|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT:  | 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: 1170; UN proper shipping name: Ethanol Solution; Transport hazard class(es): 3; Packing group: III. Environmental hazards: Not Hazardous. Special precautions for user: Not Applicable. Maritime transport in bulk according to IMO instruments: Not Applicable. |
| IMDG: | See combined IATA / ADR / DOT-US / IMDG block. UN 1170, Ethanol Solution, class 3, PG III.                                                                                                                                                                                                                                                                                                                                                                                                         |
| IATA: | 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 1170, Ethanol Solution, class 3, PG III.                                                                                                                                                                                                                                                                                          |

## Section 15: Regulatory information

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### 15.1 International Inventories

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|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| US Toxic Substances Control Act (TSCA): | Ethyl alcohol (64-17-5, <24): Listed. Nickel (II) sulfate hexahydrate (1:1:6) (10101-97-0, <0.1): - |
| Canada (DSL/NDL):                       | Not listed                                                                                          |
| Europe (EINECS/ELINCS/NLP):             | Not listed                                                                                          |
| Australia (AICS):                       | Not listed                                                                                          |
| South Korea (KECL):                     | Not listed                                                                                          |
| China (IECSC):                          | Not listed                                                                                          |
| Japan (ENCS):                           | Not listed                                                                                          |
| Phillipines (PICCS):                    | Not listed                                                                                          |

### 15.2 US Federal Regulations

|                          |                                        |
|--------------------------|----------------------------------------|
| SARA 313:                | This product is not regulated by SARA. |
| SARA 311/312 components: | Not listed                             |
| CWA (Clean Water Act):   | No information available.              |

### 15.3 US State Regulations

|                                       |                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| California Proposition 65:            | Proposition 65 lists ethanol in alcoholic beverages. Ethyl alcohol (64-17-5, <24): Carcinogen, Developmental. Nickel (II) sulfate hexahydrate (10101-97-0, <0.1): Carcinogen, Developmental, Male Reproductive                                                                                                                |
| Massachusetts-RTK:                    | Ethyl alcohol: Listed. Nickel (II) sulfate hexahydrate (1:1:6): Listed                                                                                                                                                                                                                                                        |
| New Jersey-RTK:                       | Ethyl alcohol: Listed. Nickel (II) sulfate hexahydrate (1:1:6): Listed                                                                                                                                                                                                                                                        |
| Pennsylvania-RTK:                     | Ethyl alcohol: Listed. Nickel (II) sulfate hexahydrate (1:1:6): Listed                                                                                                                                                                                                                                                        |
| U.S. State Right-To-Know Regulations: | Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61): This product does not contains HAPs. WHMIS Hazard Class: B2 - Flammable liquid. National Regulations - Brazil: Ethyl alcohol (64-17-5) — ANVISA Not Listed; LINACH Group 1. Nickel (II) sulfate (10101-97-0) — ANVISA Not Listed; LINACH Group 1. |

## Section 16: Other information

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### 16.1 HMIS

|                      |                |
|----------------------|----------------|
| Health hazards:      | Not determined |
| Flammability:        | Not determined |
| Reactivity:          | Not determined |
| Personal protection: | Not determined |

### 16.2 NFPA

|                                   |                |
|-----------------------------------|----------------|
| Health hazards:                   | Not determined |
| Flammability:                     | Not determined |
| Stability:                        | Not determined |
| Physical and chemical properties: | Not determined |

### 16.3 Further information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding the completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.