

# Material Safety Data Sheet

Revision Date: 1-June-2016



## 1. Product and Company Information

Product Name *ProteinIso™ Ni-NTA Resin*  
Cat. No. DP101  
Company TransGen Biotech Co., Ltd.  
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## 2. Hazards Identification

GHS - Classification

Signal Word: **WARNING**

Indication of danger: T-Toxic



Hazard statements: Flammable.

Harmful if swallowed.

Limited evidence of a carcinogenic effect

May cause sensitization by inhalation and skin contact.

Precautionary statements: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not breathe vapor or mist. Use only with adequately ventilation. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep container tightly closed. Use personal protective equipment as required. Wash thoroughly after handling.

### Potential acute health effects

Eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation with susceptible persons.
Inhalation	May cause irritation of the respiratory system.

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**Ingestion**      Ingestion may cause irritation to mucous membranes.

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### 3. Composition

Chemical Name	CAS-No	Weight %
Ethanol	64-17-5	20
Nickel (II) chloride, hexahydrate	7791-20-0	0.25

We recommend handling all chemicals with caution.

### 4. First Aid Measures

General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes.
Inhalation	Move to fresh air.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Notes to physician	Treat symptomatically.

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### 5. Fire-Fighting Measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

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### 6. Accidental Release Measures

Personal precautions	Use personal protective equipment.
Methods for cleaning up	Soak up with inert absorbent material.
Environmental precautions	Prevent further leakage or spillage if safe to do so.

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## 7. Handling and Storage

### Handling

Always wear recommended Personal Protective Equipment. No special handling advice required.

### Storage

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

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## 8. Exposure Controls/Personal Protection

Exposure limits:

Chemical Name	OSHA PEL (TWA)	OSHA PEL (STEL)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Ethanol	1900 mg/ m <sup>3</sup>	none	1000 ppm	none
Nickel (II) chloride, hexahydrate	none	none	none	none

## 9. Physical and Chemical Properties

### General Information

Form: liquid

Water solubility: soluble

Others: No information available.

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## 10. Stability and Reactivity

### Stability

Stable under normal conditions

### Materials to avoid

No data available

### Polymerization

None under normal processing.

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## 11. Toxicological Information

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Ethanol	11500-7060 mg/kg (Rat)	no data available	64,000 ppm/4hr
Nickel (II) chloride, hexahydrate	105 mg/kg (Rat)	no data available	no data available

Principle Routes of Exposure/  
Potential Health effects

Eyes

May cause eye irritation with susceptible persons.

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Skin	May cause skin irritation with susceptible persons.
Inhalation	May cause irritation of the respiratory system.
Ingestion	Ingestion may cause irritation to mucous membranes.
Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.

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## 12. Ecological Information

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.

## 13. Disposal Considerations

Dispose of in accordance with local regulations.

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## 14. Transport Information

IATA	
Proper shipping name	Ethanol solution
Hazard class	3
Subsidiary Class	none
Packing group	III
UN-No	1170

## 15. Regulatory Information

International Inventories	Complies
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Hazard symbols: Harmful

Risk phrases: Flammable.

Harmful if swallowed.

Limited evidence of a carcinogenic effect.

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May cause sensitization by inhalation and skin contact.

Safety phrases: Keep away from food, drink and animal feedingstuffs.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

If swallowed, seek medical advice immediately and show this container or label.

Special labeling of certain preparations: Warning-contains substance not yet fully tested

## **16. Other Information**

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

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 MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE

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**End of Safety Data Sheet**