

**SECTION 1: IDENTIFICATION****1.1 Product identifier**

Product Name NISH Pretreatment

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

Identified uses For research use only. Not for diagnostic use.

**1.3 Details of the supplier of the data sheet**

Company Empire Genomics Corp.  
3370 Walden Ave, Suite 114  
Depew, NY 14043

Telephone +1 716 856 3440

**SECTION 2. HAZARDS IDENTIFICATION**

This safety data sheet complies with the requirements of Regulation EC 1907/2006.

**2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture.

**2.2 Label elements including precautionary statements**

Not a hazardous substance or mixture.

**2.3 Other hazards**

None.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Chemical Characterization**

Mixture.

**3.2 Dangerous Components**

Chemical Name	CAS No	EINECS No	Weight %
Trade Secret Compound*	-	-	< 1.5

\* Chemical name, CAS number, and exact concentration have been withheld as a trade secret. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/inhalation acute toxicant in Category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

**SECTION 4. FIRST AID MEASURES****4.1 Description of first aid measures**

General information

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Inhalation

Allow victim to breath fresh air. Allow the victim to rest. Get medical attention if symptoms occur.

Ingestion

Rinse mouth. Do not induce vomiting without medical advice. Drink plenty of water. Consult a physician.

Skin Contact

Rinse immediately with plenty of water. Get medical attention if symptoms occur.

Eye Contact

Flush immediately with plenty of water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses if present.

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

The most important known symptoms and effects are described in Section 2.2 and/or in Section 11.

**4.3 Indication of any immediate medical attention and special treatment needed.**

Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES****5.1 Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use high volume water jet.

**5.2 Special hazards**

Do not allow run-off from fire fighting to enter drains or water courses.

**5.3 Advice for fire fighters**

Wear self-contained breathing apparatus and protective suit.

**5.4 Further information**

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**
**6.1 Personal precautions, protective equipment and emergency procedures**

Always use personal protection equipment. Avoid dust formation. Avoid breathing dust.

**6.2 Environmental Precautions**

No special environmental protection measures are necessary.

**6.3 Methods and material for containment and clean up**

Absorb with liquid-binding material (e.g., sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4 Reference to other sections**

Wear personal protective equipment as described in Section 8 of the safety data sheet.

**SECTION 7. HANDLING AND STORAGE**
**7.1 Precautions for safe handling**

Provide good ventilation in the process area. Always wear recommended personal protective equipment. Avoid contact with skin, eyes, and clothing.

**7.2 Conditions for safe storage, including any incompatibles**

Store at 2-8°C under sterile conditions. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from food and drink.

**7.3 Specific end use(s)**

For research use only.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control parameters**

Workplace Exposure Limits (WEL)

Chemical Name	Cas No	Value	Control Parameters	Basis
Trade Secret Compound	-	TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)

**8.2 Exposure controls**

Personal Protective Equipment

Wear protective gloves/protective clothing and eye/face protection. Only wear fitting, comfortable, and clean protective clothing.

Respiratory Protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Hand Protection

Eye Protection

Skin and Body Protection

Environmental exposure controls

Tested protective gloves are to be worn: DIN-  
/EN-Norms: EN ISO 374.

Tightly sealed safety glasses.

Wear suitable protective clothing.

Refer to Section 6. No further action is  
necessary.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance: Liquid.

### 9.2 Other information

No data available.

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

The product is non-reactive under normal conditions of use, storage, and transport.

### 10.2 Stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None under normal use conditions.

### 10.4 Conditions to avoid

None under recommended storage and handling conditions.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11. TOXICOLOGICAL INFORMATION**
**11.1 Information on toxicological effects**
**Toxicological information**
**Acute Toxicity**

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LD50 (inhalation, rat/mouse)
Trade Secret Compound	693.7 mg/kg	3000 mg/kg	2000 mg/m <sup>3</sup>

Principle Routes of exposure
Potential Health Effects

Inhalation	No data available.
Ingestion	No data available.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Carcinogenetic effects	No data available.
Mutagenic effects	No data available.
Reproductive toxicity	No data available.
Sensitization	No data available.
Target organ effects	No data available.
Other adverse effect	No data available.

**SECTION 12. ECOLOGICAL INFORMATION**
**12.1 Ecotoxicity**

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data
Trade Secret Compound	-	LOEC: 1.25 mg/L (21 d) (D. magna) NOEC: 0.63 mg/L (21 d) (D. magna)	LC50: 16.4 mg/L

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulation 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**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product shall comply with all the requirements of all applicable local, regional, national/federal regulations.

**SECTION 14. TRANSPORT INFORMATION****IATA/ADR/DOT-US/IMDG**

Not dangerous goods. Not regulated by transport regulations.

<b>14.1 UN number</b>	Not applicable
<b>14.2 UN proper shipping name</b>	Not applicable
<b>14.3 Transport hazard class(es)</b>	Not applicable
<b>14.4 Packaging group</b>	Not applicable
<b>14.5 Environmental hazards</b>	Not applicable

**SECTION 15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. Not subject to reporting requirements of the United States SARA Section 313.

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312**

No SARA Hazards.

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants, as defined by the US Clean Air Act.

**Clean Water Act**

This product does not contain any hazardous substances listed under the US Clean Water Act.

**US State Regulations**

California Proposition 65 – This product does not contain any substances known to the state of California to cause cancer, developmental, and/or reproductive harm.

US – New Jersey – Right to Know Hazardous Substance List; US – New York City – Right to Know Hazardous Substances List; US – Pennsylvania – Right to Know List

**15.2 Chemical safety assessment**

No data available.

**SECTION 16. OTHER INFORMATION****Disclaimer**

The information contained herein is believed to be correct at time of issue but may not be all-inclusive and should be used as a guide only. Further, it is recommended that the product be handled and used by appropriately trained personnel only. Empire Genomics Corp. shall not be held liable for any damage resulting from handling or from contact with the product.