

Conforms to 93/112/EC and ISO 11014-1

Responsible Name Company2

? **Section 1. Chemical Product and Company Identification**

Product name HisGrab™ Nickel Coated Plates (clear, 8-well Strip)

Product No. 0015142

Supplier	In USA: Pierce P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723	In Europe: Perbio Science Industriezone III Industrielaan 27 9320 Erembodegem-Aalst Belgium Tel:+32 53 83 44 04 Fax:+32 53 83 76 38	Manufacturer	Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723
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In Case of Emergency CHEMTREC:
800.424.9300
OUTSIDE US:
202.483.7616

Print Date 1/27/2005
Validation Date 1/25/2005
MSDS# 2532

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

 **Section 2. Composition, Information on Ingredients**

Substance/Preparation : Preparation

No hazardous ingredient according to 29 CFR 1910.1200 Hazard Communication Standard (USA) and Directives 1999/45/EC-2001/59/EC (EU)

 **Section 3. Hazards Identification**

United States Review the most current and approved institutional guideline, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.

Emergency Overview No specific hazard.
Not applicable.
Not applicable.

Routes of Entry Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eyes No known significant effects or critical hazards.

Skin No known significant effects or critical hazards.

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenic Effects Data

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure /Signs/Symptoms Not available.

Europe

Classification Not classified.

Physical/chemical hazards Not applicable.

Human health hazards Not applicable.

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Environmental hazards Not applicable.

See Toxicological Information (section 11)

+ Section 4. First Aid Measures

Notice to Reader Get immediate medical attention.

Effects and symptoms

Inhalation Non-hazardous in case of inhalation. Non-irritant for lungs.

Ingestion Non-hazardous in case of ingestion.

Skin Contact Sensitization of the product: Not available.
Non-irritant for skin.

Eye Contact Non-irritating to the eyes.

Aggravating conditions Repeated or prolonged exposure is not known to aggravate medical condition.

First-Aid Measures

Inhalation In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Notes to Physician Not available.

Protection of first-aiders Not available.

Section 5. Fire Fighting Measures

Flammability of the Product May be combustible at high temperature.

Flash Points Not available.

Fire Hazards in Presence of Various Substances Not available.

Fire Fighting Media and Instructions Use an extinguishing agent suitable for surrounding fires.
Not available.

Protective Clothing (Fire) Be sure to use an approved/certified respirator or equivalent.

Hazardous thermal (de)composition products These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...).

Section 6. Accidental Release Measures

Personal precautions Safety glasses. Lab coat.

Environmental Precautions and Clean-up Methods Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Small Spill and Leak Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

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◆ Section 7. Handling and Storage

Handling Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Packaging materials

Suitable / Not suitable Use original container.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Exposure Limit Values

Ingredient Name

Occupational Exposure Limits

United States

Personal Protection

Eyes Safety glasses.

Body Lab coat.

Protective Clothing
(Pictograms)



🧪 Section 9. Physical and Chemical Properties

Physical State and Appearance Liquid. (Coating.)

Color Not available.

Odor Not available.

Molecular Weight Not applicable.

Taste Not available.

pH (1% Soln/Water) Neutral.

Boiling/Condensation Point The lowest known value is 100°C (212°F) (Milli-Q Water).

Melting/Freezing Point May start to solidify at 0°C (32°F) based on data for: Milli-Q Water.

Specific Gravity The only known value is 1 (Water = 1) (Milli-Q Water).

Vapor Pressure The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Milli-Q Water).

Vapor Density The highest known value is 0.62 (Air = 1) (Milli-Q Water).

Evaporation Rate 0.36 (Milli-Q Water) compared to Butyl acetate.

Dispersion Properties See solubility in water.

Solubility Partially soluble in cold water, hot water.

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Section 10. Stability and Reactivity

- Stability and Reactivity** The product is stable.
- Conditions to avoid** Not available.
- Materials to avoid** Slightly reactive to reactive with oxidizing agents.
- Hazardous Polymerization** Will not occur.
- Hazardous Decomposition Products** Not available.



Section 11. Toxicological Information

- Toxicity to Animals** **Milli-Q Water:**
ORAL (LD50): Acute: >90000 mg/kg [Rat].
MES pHix Buffer Grade
LD50: Not available.
LC50: Not available.
- Chronic Effects on Humans** Not available.
- Other Toxic Effects on Humans** Non-irritating to the eyes. Non-hazardous in case of inhalation. Non-irritant for lungs. Non-sensitizer for lungs.
- Special Remarks on Toxicity to Animals** Not available.
- Special Remarks on Chronic Effects on Humans** Not available.
- Special Remarks on Other Toxic Effects on Humans** Not available.
- Carcinogenicity** No known significant effects or critical hazards.
- Mutagenicity** No known significant effects or critical hazards.
- Reproductive toxicity** No known significant effects or critical hazards.
- Over-exposure signs/symptoms**
- Inhalation** No known significant effects or critical hazards.
- Ingestion** No known significant effects or critical hazards.
- Skin** No known significant effects or critical hazards.



Section 12. Ecological Information

- Mobility** Not available.
- Persistence/degradability** Not available.
- Bioaccumulative potential** Not available.
- Ecotoxicity** Not available.
- Germany water class** VCI WGK: No products were found.

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>
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Other ecological information

<u>Persistence/degradability</u>	<u>BOD₅</u>	<u>COD</u>
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HisGrab™ Nickel Coated Plates (clear, 8-well Strip)

[Ingredient name](#)

[Aquatic half-life](#)

[Photolysis](#)

[Bioaccumulative potential](#)

[Ingredient name](#)

[LogP_{ow}](#)

[BCF](#)

[Mobility](#) : Not available.

[Other adverse effects](#) : No known significant effects or critical hazards.



Section 13. Disposal Considerations

[Waste Stream](#) Not available.

[Methods of disposal](#) The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

[European waste catalogue \(EWC\)](#) Not available.

[Hazardous waste](#) To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

[Denmark – Carcinogenic waste](#) Not available.

[Denmark - Waste card number](#) Not available.

[Denmark - Waste group](#) Not available.

[Sweden - thermoset plastic waste](#) Not available.

[Sweden - Waste group](#) Not available.

[Austria - Waste catalogue](#) Not available.

[Norway - Waste number](#) Not available.

[Norway - Hazardous waste](#) To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by SFT's Directive on special waste.

[Switzerland - Waste code](#) Not available.



Section 14. Transport Information

Contact the supplier for all information regarding the proper transportation method for this material.



Section 15. Regulatory Information

Label Requirements (Europe)

This product is not classified according to the EU regulations.

[HCS Classification](#) --

[U.S. Federal Regulations](#) TSCA 8(b) inventory: Milli-Q Water; MES pHix Buffer Grade

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HisGrab™ Nickel Coated Plates (clear, 8-well Strip)

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

State regulations No products were found.

WHMIS (Canada) Not controlled under WHMIS (Canada).

CEPA DSL: Milli-Q Water; MES pHix Buffer Grade

International Regulations

EINECS Not available.

DSCL (EEC) This product is not classified according to the EU regulations.

International Lists Australia (NICNAS): Milli-Q Water; MES pHix Buffer Grade

Japan (METI): Milli-Q Water

Japan (MOL): MES pHix Buffer Grade

Korea (TCCL): Milli-Q Water; MES pHix Buffer Grade

Philippines (RA6969): Milli-Q Water

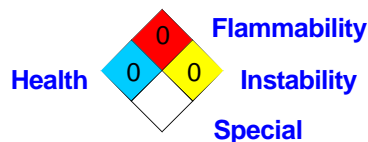
State Regulations No products were found.

Section 16. Other Information

Hazardous Material Information System (U.S.A.)

Health	0
Fire hazard	0
Reactivity	0
Personal protection	A

National Fire Protection Association (U.S.A.)



References Not available.

History of Document Changes Any information changes since last document version are marked with a triangle symbol. 

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Validated by Company2 on 1/25/2005.

Verified by Company2.

Date of Previous Issue No Previous Validation

Printed 1/27/2005.

Version 0.02

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.