

# Kit Material Safety Data Sheet

Responsible Name **Pierce Administration** 

Section 1. Chemica	I Product and Company Identification	Name
Common Name	Glycoprotein Carbohydrate Estimatio	n Kit
Code	0023260	
Supplier In Case of Emergency		
	800.424.9300 OUTSIDE US: 202.483.7616	
Print Date	3/20/2000	
Validation Date	3/16/2000	
MSDS#	2598	
Component/Item#	1) Sodium Meta-Periodate       1856176 0020         2) Glycoprotein Detection Reagent       1856177         3) Glycoprotein Assay Buffer       1856178 1900         4) Lysozyme       1856179 1888         5) Bovine Serum Albumin       1856180 1888         6) Ovalbumin       1856181 1888         7) Apo-Transferrin       1856183 1888         8) Fetuin       1856183 1888         9) Alpha-1 Acid Glycoprotein       1856184 1888	0294 3320 9598 9599 9607 9601
Manufacturer	Pierce Chemical Company P.O. Box 117 Rockford, IL 61105 USA 815.968.0747	

# Section 2. Composition and Information on Hazardous (OSHA) Ingredients

#### Name

Sodium Meta-Periodate
 Glycoprotein Detection Reagent

#### % by Weight

**Exposure Limits** 

20-35 Not available. 20-35 Not available.

# Section 3. Hazards Identification

	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 Pierce product.	
Emergency Overview	Store in tightly closed container. Avoid contact with eyes, skin and clothing. Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Avoid breathing vapor or mist. Avoid contact with combustible materials. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.	
Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.	
	Very hazardous in case of skin contact (irritant), of inhalation (lung irritant). Hazardous in case of eye contact (irritant), of ingestion, . Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation.	
Carcinogenic Effects Data	CARCINOGENIC EFFECTS: Not available.	
	MUTAGENIC EFFECTS: Not available.	
	TERATOGENIC EFFECTS: Not available.	

#### Glycoprotein Carbohydrate Estimation Kit

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

See Toxicological Information (section 11)

# Section 4. First Aid Measures

SKIN: Wash contaminated skin with soap and water. EYES: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. Inhalation: Move exposed person to fresh air. If irritation persists, get medical attention. Ingestion: Do not induce vomiting. If affected person is conscious, give plenty of water to drink. Seek medical attention.

### Section 5. Fire Fighting Measures

Flammability of the Product May be combustible at high temperature.

Flash Points	<ol> <li>Sodium Meta-Periodate</li> <li>Glycoprotein Detection Reagent</li> <li>Glycoprotein Assay Buffer</li> <li>Lysozyme</li> <li>Bovine Serum Albumin</li> <li>Ovalbumin</li> <li>Apo-Transferrin</li> <li>Fetuin</li> <li>Alaba 1 Acid Chrooprotein</li> </ol>	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
	9) Alpha-1 Acid Glycoprotein	Not available.

*Fire Hazards in Presence of* Not considered to be flammable. *Various Substances* 

Fire Fighting Media Oxidizing material.

and Instructions Do not use water jet. Use flooding quantities of water. Avoid contact with organic materials. Protective Clothing (Fire) Be sure to use an approved/certified respirator or equivalent.

# Section 6. Accidental Release Measures

Small Spill and LeakDilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste<br/>disposal container.<br/>Oxidizing material.<br/>Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep<br/>substance damp using water spray. Do not touch spilled material. Prevent entry into sewers,<br/>basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on<br/>disposal.

### Section 7. Handling and Storage

Handling Store in tightly closed container. Avoid contact with combustible materials.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers.

# 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 threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.



Consult local authorities for acceptable exposure limits.

# Section 9. Physical and Chemical Properties

Component	Physical State and Appearance	Color
<ol> <li>Sodium Meta-Periodate</li> <li>Glycoprotein Detection Reagent</li> <li>Glycoprotein Assay Buffer</li> <li>Lysozyme</li> <li>Bovine Serum Albumin</li> <li>Ovalbumin</li> <li>Apo-Transferrin</li> <li>Fetuin</li> <li>Alpha-1 Acid Glycoprotein</li> </ol>	Solid. (Crystals solid.) Solid. (Powdered solid.) Liquid. Solid. Solid. Solid. Solid. Solid. Solid. Solid.	White. White. Clear Colorless. Not available. Not available. Not available. Not available. Not available. Not available. Not available.

# Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions of Instability Reacts violently with water especially when water is added to the product. Heating may cause an explosion. Keep away from heat (Sodium Azide)

Incompatibility with Various Reactive with reducing agents, combustible materials, organic materials, metals. Substances Slightly reactive to reactive with acids.

# Section 11. Toxicological Information

Other Toxic Effects on Humans Hazardous in case of eye contact (irritant), of ingestion, .

Special Remarks on Other To the best of our knowledge, the toxicological properties of this product have not been thoroughly Toxic Effects on Humans investigated. (Glycoprotein Detection Reagent)

# Section 12. Ecological Information

*Toxicity of the Products of* 1) Sodium Meta-Periodate *Biodegradation* 

- 2) Glycoprotein Detection Reagent
- 3) Glycoprotein Assay Buffer
- Lysozyme
- 5) Bovine Serum Albumin
- 6) Ovalbumin
- 7) Apo-Transferrin
- 8) Fetuin
- 9) Alpha-1 Acid Glycoprotein

The products of degradation are less toxic than the product itself. The products of degradation are less toxic than the product itself. Not available. Not available.

### Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Not available.

Consult your local or regional authorities.

### Section 14. Transport Information

DOT Classification CLASS 5.1: Oxidizing material.

Proper shipping name Oxidizing substances, liquid, N.O.S., 5.1, UN3139, II

TDG Classification CLASS 5.1: Oxidizing material.

Proper shipping name Oxidizing substances, liquid, N.O.S., 5.1, UN3139, II

Special Provisions for Not available. Transport

ADR/RID Classification CLASS 5.1: Oxidizing material.

IMO/IMDG Classification CLASS 5.1: Oxidizing material.

ICAO/IATA Classification CLASS 5.1: Oxidizing material.

### Section 15. Regulatory Information

HCS Classification CLASS: Oxidizer.

CLASS: Target organ effects.

U.S. Federal Regulations TSCA 4(a) proposed test rules: Sodium Meta-Periodate TSCA 8(b) inventory: Sodium Meta-Periodate; Glycoprotein Detection Reagent; Assay Buffer Component 1; Sodium Azide; Bovine Serum Albumin; Ovalbumin; Apo-Transferrin TSCA 8(d) H and S data reporting: Sodium Azide SARA 302/304/311/312 extremely hazardous substances: Sodium Azide SARA 302/304 emergency planning and notification: Sodium Azide SARA 302/304/311/312 hazardous chemicals: Strong base; Sodium Azide SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Strong base: immediate health hazard; Sodium Azide: immediate health hazard

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: Strong base 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.

WHMIS (Canada) CLASS C: Oxidizing material.

CEPA DSL: Sodium Meta-Periodate; Strong base; Sodium Azide; Bovine Serum Albumin; Ovalbumin; Apo-Transferrin; Fetuin

CEPA NDSL: Glycoprotein Detection Reagent; Sodium Azide

International Regulations

EINECS Not available.

DSCL (EEC) R8- Contact with combustible material may cause fire. R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin.



#### Glycoprotein Carbohydrate Estimation Kit

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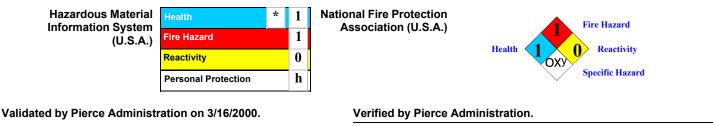
International Lists Australia (NICNAS): Milli-Q Water; Strong base; Assay Buffer Component 2; Sodium Azide; Bovine Serum Albumin

Korea (TCCL): Glycoprotein Detection Reagent; Milli-Q Water; Strong base; Sodium Azide

Philippines (RA6969): Milli-Q Water; Strong base; Sodium Azide; Bovine Serum Albumin

State Regulations Pennsylvania RTK: Strong base: (environmental hazard, generic environmental hazard); Sodium Azide: (environmental hazard) Florida: Sodium Azide Minnesota: Sodium Azide Massachusetts RTK: Strong base; Sodium Azide New Jersey: Strong base; Sodium Azide California prop. 65: No products were found.

# Section 16. Other Information



# Printed 3/20/2000.

#### Notice to Reader

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