Alere North America, Inc.
MATERIAL SAFETY DATA SHEET (MSDS)

MSDS-4607
Revision: A

Alere HemoPoint® H2 Meter (including NiMH Battery)

Previously: # G3000-01

Section 1 - Chemical Product Identification

MSDS Name: Alere HemoPoint® H2 Meter (including NiMH Battery)

Product Description: The instrument contains a plastic covering (top and bottom), electronic boards, LED screen, and a rechargeable Nickel Metal Hydride (NiMH) battery. The instrument does not pose a safety risk and is not considered hazardous when the instrument is used properly following the safety guidelines stated in the Alere HemoPoint® H2 User Manual.

Company Identification: Stanbio Laboratory
1261 North Main Street
Boerne, TX 78006
www.stanbio.com
(830) 249-0772

Alere™ Technical Support: (866) 216-0073

Section 2 - Composition, Information on Ingredients

IMPORTANT NOTE:
(USA) The product is a manufactured article as described in 29 CFR 1910.1200. As such, an MSDS is not required per the Hazard Communication Standard (29 CFR 1910.1200). This regulation defines an “article” as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use functions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

The battery cell is contained in a hermetically sealed case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, hazardous materials are fully contained inside the battery cell. The battery cell should not be opened or exposed to heat because exposure to the following ingredients contained within could be harmful under some circumstances.

(EU) These batteries are not “substances” or “preparations” according to Regulation (EC) No 1907/2006EC. Instead they are regarded as “articles” as no substances are intended to be released during handling. Therefore, there is no obligation to supply an MSDS according to Regulation (EC) 1907/2006, Article 31.

(GENERAL) The information contained in this MSDS is provided as a service to our customers and is provided for the user’s information only.

Alere HemoPoint® H2 Meter (including NiMH Battery)

Previously: # G3000-01

Ingredients:

Chemical Name	CAS No.	Concentration
Mischmetal nickel alloy	Mixture	< 35%
Nickel hydroxide	12054-48-7	< 30%
Potassium hydroxide	1310-58-3	< 20%

Chemical Name	CAS No.	Concentration
Sodium hydroxide	1310-73-2	< 20%
Cobalt and compounds	Mixture	< 3%

Heavy Metals:

Chemical Name	CAS No.	Concentration
Cadmium	7440-43-9	< 20 mg/kg
Lead	7439-92-1	< 40 mg/kg
Mercury (none intentionally introduced)	7439-97-6	< 1 mg/kg
Hexavalent Chromium (Cr^{6+})		< 5 mg/kg

Other Ingredients:

Chemical Name	CAS No.	Concentration
Steel and nickel	NA	10 – 60%
Polymers	NA	2 – 10%

During the charge process, the mischmetal nickel alloy is loaded with hydrogen, this compound is flammable.

Section 3 - Hazard Identification

A sealed NiMH battery is not hazardous in normal use.

In case of mistreatment (abusive over charge, reverse charge, external short circuit…) and in case of damage, some electrolytes can leak from the cell. In these cases refer to the risks of potassium hydroxide solution or sodium hydroxide solution (corrosive, pH > 14).The electrode materials are only hazardous if the materials are released by mechanical damage of the cell or if exposed to fire.

Alere HemoPoint® H2 Meter (including NiMH Battery)

Previously: # G3000-01

Section 4 - First Aid Measures

In case of contact with / through:

Eyes: Flush eyes including under the eyelids with water for 15 minutes, while holding eyelids open. Seek medical attention.

Skin: Flush skin with water. Wash affected area thoroughly with soap and water. Remove contaminated clothing. If irritation occurs, seek medical attention.

Ingestion: Do not induce vomiting. Drink plenty of water. Seek medical attention. No studies performed on neutralizing stomach contents.

Inhalation: Remove victim to fresh air. Seek medical attention.

Section 5 - Fire Fighting Measures

Extinguishing Media: Use foam, dry chemical or carbon dioxide, as appropriate.

Special Fire Fighting Procedures: Clear fire area of unprotected personnel. Do not enter fire area without full bunker gear, helmet with face shield, bunker coats, gloves and rubber boots. Include a positive pressure NIOSH approved self-contained breathing apparatus.

Unusual Fire And Explosion Hazards: Under fire conditions, the electrode materials can form carcinogenic nickel and cobalt oxides.

Section 6 - Accidental Release Measures

Person Related Measures: Wear personal protective equipment (PPE) to the situation (protection, gloves, etc.).

Environmental Protection: In the event of battery rupture, prevent skin contact and collect all released material in a plastic lined container. Dispose according to the local laws and regulations. Avoid leached substances to get into the ground or water sources.

Treatment For Cleaning: If battery casing is dismantled, small amounts of electrolyte may leak. Pack the battery including leaked ingredients as described previously then clean area with copious amounts of water.

Alere HemoPoint® H2 Meter (including NiMH Battery)

Previously: # G3000-01

Section 7 - Handling and Storage

Handling: Do not swallow batteries. Do not throw batteries into water. Do not throw batteries into fire. Do not short circuit batteries. Only use charger/adaptor that was included with the instrument.

Storage: Store at room temperature 15 – 30°C. Should battery be removed from instrument, ensure that nothing comes in contact with the battery as it may short circuit.

Section 8 - Exposure Control, Personal Protective Equipment

Under normal conditions (during charge and discharge) release of ingredients does not occur.

Section 9 - Physical and Chemical Properties

Not applicable if the battery remains sealed.

Section 10 - Stability and Reactivity

If the battery is heated above 150 °C the risk of rupture may occur.

Section 11 - Toxicological Information

Under normal conditions (during charging and discharging) release of ingredients does not occur. If accidental release occurs, see information in section 2, 3, and 4.

Swallowing parts of the battery can be harmful. Contact the local Poison Control Center for advice and follow-up.

Section 12 - Ecological Considerations

Nickel Metal Hydride batteries do not contain heavy metals as defined by the European directive 2006/66/EC Article 21.

Mercury has not been “intentionally introduced (as distinguished from mercury that may be incidentally present in other materials)” as stated in the United States “Mercury Containing and Rechargeable Battery Management Act” (May 13, 1996).

Alere HemoPoint® H2 Meter (including NiMH Battery)

Previously: # G3000-01

Section 13 - Disposal Considerations

(USA) Nickel metal hydride batteries are classified by the federal government as non-hazardous waste and are safe for disposal in the normal municipal waste stream. These batteries, however, do contain recyclable materials and are accepted for recycling by the Rechargeable Battery Recycling Corporation's (RPBC) Battery Recycling Program. Please refer to their website at (www.rbrc.org) for additional information.

(EU) Manufacturing, handling and disposal of batteries is regulated on the basis of Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators and waste batteries and accumulators. Customers can find detailed information on disposal in their specific countries using the web site of the European Portable Batteries Association (www.epbaeurope.net/legislation_national.html).

Importers and users outside USA and EU should consider the local law and regulations.

In order to avoid short circuit and heating, used batteries should never be stored or transported in bulk. Proper measures against short circuit are storing the battery in the original packaging and covering the terminals.

Section 14 - Transport Information

The NiMH Battery installed in the H2 instrument are considered to be "dry cell" batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civic Aviation Administration (ICAO) International Air Transport Association (IATA), the International Maritime Organization (IMO), the "Accord European Relatif au Transport International des Marchandises Dangereuses par Route" (ADR) and the "Reglement Concernant le Transport International Ferroviaire de Marchandises Dangereuses" (RID).

Section 15 - Regulatory Information

Abide by requirements imposed by local laws and regulations.

Alere HemoPoint® H2 Meter (including NiMH Battery)

Previously: # G3000-01

Section 16 - Other Information

The information contained in this MSDS is believed to be accurate and represents the best information currently available. Alere makes no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should determine suitability of the information contained in this MSDS for their particular purpose. In no way shall Alere be liable for any claims, losses or damages resulting from using information contained in this MSDS.

If you have any additional questions please review the Alere HemoPoint® H2 User Manual and / or contact Alere Technical Support at (866) 216-0073 or our website: www.alere.com

Effective Date: August 22, 2011

Signature Manifest

Document Number: MSDS-4607 **Revision:** A

Title: HemoPoint H2 Hemoglobin Photometer

All dates and times are in US/Pacific.

DCF-0359 HemoPoint H2 Meter MSDS

Collaboration Step 1

Name/Signature	Title	Date	Meaning/Reason
Dennis Dalangin (DALANDE)		18 Jan 2012, 10:00:57 AM	Complete
Renee Wiegmann (WIEGMRE)		18 Jan 2012, 12:34:14 PM	Complete

Collaboration Step 2

Name/Signature	Title	Date	Meaning/Reason
Mark Mitchell (MITCHMA)	Director	20 Jan 2012, 08:32:25 AM	Complete
Robert Schmidt (SCHMIRO)	Senior Director, Quality Assur	23 Jan 2012, 07:44:38 AM	Complete & Quit
Dennis Dalangin (DALANDE)	Product Director	23 Jan 2012, 08:35:15 AM	Complete
Renee Wiegmann (WIEGMRE)	Document Controller II	24 Jan 2012, 08:58:37 AM	Complete

Approval Step

Name/Signature	Title	Date	Meaning/Reason
Robert Schmidt (SCHMIRO)	Senior Director, Quality Assur	24 Jan 2012, 09:48:39 AM	Approved
Mark Mitchell (MITCHMA)	Director, Operations	24 Jan 2012, 11:07:01 AM	Approved
Eric Ogg (OGGER)	Associate Product Manager	25 Jan 2012, 10:07:55 AM	Approved
Dennis Dalangin (DALANDE)	Product Director	25 Jan 2012, 10:28:29 AM	Approved
Renee Wiegmann (WIEGMRE)	Document Controller II	25 Jan 2012, 03:21:43 PM	Approved

Final Release

Name/Signature	Title	Date	Meaning/Reason
Farah Shah (FARAH.SHAH)			
Erica Garcia (GARCIER)			
Gloria Obregon (OBREGGL)			
Deborah Phillips (PHILLDE)			
Renee Wiegmann (WIEGMRE)	Document Controller II	25 Jan 2012, 03:22:16 PM	Approved