SAFETY DATA SHEET

Section 1: Identification of the Substance/Mixture and of the Company/ Undertaking

Product identifier: Saturated Sodium Chloride Solution

Relevant identified uses of the substance or mixture and uses advised against:
For maintenance of the reference electrode in a Model 3010B Lead analyzer.

Details of the supplier of the Safety Data Sheet:

United States: Magellan Diagnostics, Inc.
101 Billerica Ave., Bldg 4
North Billerica, MA 01862 US
Phone: (800) 275-0102
Fax: (978) 600-1480
Info: bloodleadtechsupport@magellandx.com

Europe: Ichor Technologies Ltd
1 Paper Mews
300 High Street
Dorking, Surrey, RH4 2TU UK
Phone: +44 (0) 1372 377 754
Fax: +44 (0) 1372 388 282
Info: bloodleadtechsupport@magellandx.com

Emergency telephone number:
(800) 535-5053 (24-hour, US only) 1 (352) 323-3500 (24-hour)

Section 2: Hazards Identification

Classification of the substance or mixture:
While this product is not classified as hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Label elements:
Not applicable

European Classification:
Mixture does not meet the hazard categories’ classification criteria of Regulation (EC) No 1272/2008.
This preparation is not classified as dangerous according to Directive 1999/45/EC.

U.S.A.:
This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910.1200).

Canada:
This is not controlled product under WHMIS.

Other hazards:
Not applicable

Section 3: Composition/Information on Ingredients

Hazardous Substances:
Product is a mixture, aqueous solution containing salt crystals (NaCl), with no hazardous ingredients at concentration greater than 0.1%.
Section 4: First Aid Measures

Description of first aid measures:

**Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Obtain medical advice.

**Eye Contact:** Rinse cautiously with lukewarm, gently flowing water or neutral saline solution for 5 minutes, while holding the eyelid(s) open.

**Skin Contact:** Flush skin with plenty of water or gently wash with soap and water.

**Ingestion:** Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed:

**Inhalation:** No immediate adverse health effects are expected from exposure to this product by inhalation.

**Eye Contact:** Splashing solution in eyes may cause mild eye irritation.

**Skin Contact:** No immediate adverse health effects are expected from exposure.

**Ingestion:** No immediate adverse health effects are expected from exposure.

Indication of any immediate medical attention and special treatment needed: Not available.

Section 5: Fire Fighting Measures

**Extinguishing media:**
Product does not burn and will not support combustion. Use extinguishing agents appropriate for the surrounding fire conditions.

**Special hazards arising from the substance or mixture:**
Not applicable

**Advice for firefighters:**
No special measures are recommended.

Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:**
Wear water-impermeable protective gloves appropriate for the workplace or laboratory where this product is handled.

**Environmental precautions:**
No special measures are recommended.

**Methods and material for containment and cleaning up:**
Contain and soak up spill with an absorbent (e.g. cloth or paper towel). Place any absorbent and waste product in suitable, covered, labeled containers for proper disposal. Do not return the spilled liquid to original containers. Follow applicable laboratory practices for cleaning of spills.

**Reference to other sections:**
See Section 8 for information on selection of personal protective equipment.
See Section 13 for information on disposal of spilled product and contaminated absorbents.
Section 7: Storage and Handling

Precautions for safe handling:
Wear personal protective equipment required for the workplace. Guidelines for selection of protective equipment are described in Section 8. Wash hands thoroughly immediately after exposure to product and at the end of the work-shift.

Conditions for safe storage, including any incompatibilities:
Reagents must be stored according to label directions. Store at 15 – 30 °C. Do not freeze or refrigerate.

Specific end use(s):
For maintenance of the reference electrode in a Model 3010B Lead analyzer.

Section 8: Exposure Controls / Personal Protection

Control parameters:
Consult regional/local authorities for acceptable exposure limits.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Ontario TWAEV (ppm)</th>
<th>ACGIH TLV (8-hr. TWA) (ppm)</th>
<th>U.S. OSHA PEL (8-hr. TWA) (ppm)</th>
<th>U.K. WEL (8-hr. TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

Exposure controls:

Engineering Controls: No special requirements.

Personal Protection: Workers must comply with the Personal Protective Equipment requirements of the workplace in which this product is handled.

Eye/Face Protection: Wear laboratory safety glasses, goggles or other eye protection appropriate for the workplace.

Skin Protection: Wear water-impermeable protective gloves and other skin protection appropriate for the workplace.

Respiratory Protection: Respiratory protection is not required when product is used as directed, for its intended purpose.

A respiratory protection program that meets OSHA’s 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 or Canadian Standards Association (CSA) Standard Z94.4-2002 must be followed whenever workplace conditions warrant a respirator’s use.

Other: Workplaces should have a safety shower, hand-wash station and eye-wash fountain readily available in the immediate work area.
SAFETY DATA SHEET

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

- **Appearance:** Liquid, colorless, containing white crystals
- **Odor:** Odorless
- **Odor threshold:** Not applicable
- **pH:** Not available
- **Melting point/freezing point:** Similar to water
- **Initial boiling point and boiling range:** Similar to water
- **Flash point:** Not applicable, product is not flammable or combustible.
- **Auto-ignition temperature:** Not applicable
- **Upper/lower flammability or explosive limits:** Not applicable
- **Explosive properties:** Not applicable
- **Oxidising properties:** Not applicable
- **Sensitivity to mechanical impact:** Not applicable
- **Sensitivity to static discharge:** Not applicable
- **Vapor pressure:** Not available
- **Vapor density:** Not available
- **Relative density:** Not available
- **Solubility (ies):** Completely soluble in water.
- **Partition coefficient (n-octanol/water):** Not available
- **Decomposition temperature:** Not available
- **Viscosity:** Not available

Other information:

Section 10: Stability and Reactivity

**Reactivity:**

- Not classified as dangerously reactive.

**Chemical Stability:**

- Normally stable.

**Possibility of Hazardous Reactions:**

- Hazardous polymerization does not occur.

**Conditions to Avoid:**

- Not available.

**Incompatible Materials:**

- Not applicable.

**Hazardous Decomposition Products:**

- Not applicable

Section 11: Toxicological Information

**Information on toxicological effects:**

**Acute Health Effects:**

- **Relevant Route(s) of Exposure:** Skin contact
- **Inhalation:** Not an expected route of exposure. No adverse health effects are expected exposure by inhalation of mist.
- **Ingestion:** Not an expected route of exposure. No adverse health effects are expected from a single exposure, if swallowed. $LD_{50}$ (oral, rat) > 3 000 mg/kg.
- **Skin:** No adverse health effects are expected from direct contact with the product.
Section 11: Toxicological Information, continued

Eye: Application of 0.1 mL of a 20% sodium chloride solution caused no irritation in rabbits (scored 0/110) while application of granular sodium chloride caused very mild irritation (scored 13/110; irritation was reversed by day 7). [Test protocol is not available]

Acute Toxicity Data:
Acute toxicology data is not available for this mixture.

Chronic Health Effects:
No data is available for the product. No long-term health effects are expected from occupational exposures to this product.

Sensitization:
Not applicable

Neurological Effects:
Not applicable

Genetic Effects:
Not applicable

Reproductive Effects:
Not applicable

Developmental Effects:
Not applicable

Target Organ Effects:
Not applicable

Carcinogenicity:
This product does not contain any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists), OSHA (Occupational Safety and Health Administration) or NTP (National Toxicology Program).

Medical Conditions Aggravated by Exposure:
Not available

Interactions With Other Chemicals:
Not available

Section 12: Ecological Information

Toxicity:
No toxic effects are expected.

Persistence and degradability:
Substances are not persistent.

Bioaccumulative potential:
Substances are not bioaccumulative.

Mobility in soil:
Not available

Results of PBT and vPvB assessment:
Not available

Other adverse effects:
Not available
Section 13: Disposal Considerations

Waste treatment methods:
No special waste disposal measures.
Follow applicable laboratory practices for disposing of potentially hazardous waste.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14: Transport Information

UN Number: Not regulated as a dangerous good for transport
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not available
Special precautions for user: Not available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

USA

Toxic Substances Control Act 8(b) Inventory: Not available.

SARA Title III:
Sec. 302/304: Not applicable
Sec. 311/312: Not applicable
Sec. 313: Not applicable
CERCLA RQ: Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification: Not controlled

New Substance Notification Regulations: All substances are listed on the Domestic Substances List (DSL).

National Pollutant Release Inventory: Not applicable

EU

EINECS Inventory: All are listed in EINECS.

Chemical safety assessment:
Not applicable
Section 16: Other Information

References and sources for data:
- HSDB – Hazardous Substances Data Bank; US National Library of Medicine
- Cheminfo – Canadian Centre for Occupational Health and Safety
- RTECS – Registry of Toxic Effects of Chemical Substances
- Supplier MSDSs for component substances.

Methods for classification of mixtures:
- Does not meet the criteria for classification as hazardous according to Regulation EC No 1272/2008 Annex I.

Full text of risk/hazard statements under Section 3:
- Not applicable

Legend to abbreviations:
- WHMIS – Workplace Hazardous Materials Information System
- SARA - Title III of the Superfund Amendments and Reauthorization Act of 1986
- CERCLA RQ - Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- PBT Persistent, Bioaccumulative and Toxic substances
- vPvB Very Persistent, very Bioaccumulative substances
- TWAEV – Time weighted average exposure value
- TWA – Time weighted average
- TLV - Threshold Limit Value
- WEL – Workplace exposure limit
- PEL – Permissible exposure limit
- ACGIH – American Conference of Governmental Industrial Hygienists
- OSHA - Occupational Safety and Health Administration

Supplier Note:
- Product is intended for use by qualified professionals experienced in handling potentially hazardous chemicals and trained in good laboratory practices. The above information is believed to be correct but does not purport to be all inclusive. All materials may present unknown hazards and should be used with caution. Magellan Diagnostics, Inc. shall not be held liable for any damage resulting from handling or contact with above product.

Prepared by:
- Magellan Diagnostics, Inc.