1. Product and Company Identification

Product Identifier

Product Name: Fluid Pack

Product Code: MN-2121D
(MN-2121AD contains 5-Chloro-2-methyl-4-isothiazolin-3-one, 2-Methyl-4-isothiazolin-3-one, and 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidinedione-2,4-dione)
(MN-2121BD contains 5-Chloro-2-methyl-4-isothiazolin-3-one, 2-Methyl-4-isothiazolin-3-one, and 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidinedione-2,4-dione)
(MN-2121CD contains Ammonium Hydrogen fluoride)

Recommended Use: To provide calibration points for the Na, K, Cl and Li electrodes.

Company

Diamond Diagnostics Inc.
333 Fiske Street
Holliston, MA 01746

Company Phone Number 508-429-0450
Email support@diamonddiagnostics.com
Emergency Telephone No: 508-429-0450

2. Hazards Identification

GHS- Classification

Classification Flammable, Corrosive, Irritant, Toxic, Environmentally Damaging, Health Hazard

Hazard Statements

H300 Fatal if swallowed.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long-lasting effects.

Precautionary Statements

P260 Do not breathe dust/fumes/gas/mist/vapors/spray.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P285 In case of inadequate ventilation wear respiratory protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see… on this label).
3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No.</th>
<th>Reach Reg. No.</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Chloro-2-methyl-4-isothiazolin-3-one</td>
<td>247-500-7</td>
<td>Not available</td>
<td>26172-55-4</td>
<td>&lt; 1%</td>
<td>Acute Tox. 4; Skin Corr, 1B; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H314, H317, H334, H410</td>
</tr>
<tr>
<td>2-Methyl-4-isothiazolin-3-one</td>
<td>220-239-6</td>
<td>Not available</td>
<td>2682-20-4</td>
<td>&lt; 1%</td>
<td>Acute Tox. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; STOT SE 3; Aquatic Acute 1; H302, H314, H317, H331, H335, H400</td>
</tr>
<tr>
<td>1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione</td>
<td>229-222-8</td>
<td>Not available</td>
<td>6440-58-0</td>
<td>&lt; 1%</td>
<td>Acute Tox. 4; Eye Irrit. 2A; Resp Sens 1; H302, H319, H334</td>
</tr>
<tr>
<td>Ammonium Hydrogen fluoride</td>
<td>215-676-4</td>
<td>Not available</td>
<td>1341-49-7</td>
<td>&lt; 1%</td>
<td>Not available</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**Eye Contact**
Flush affected area with copious amount of water.

**Skin Contact**
Flush affected area with copious amounts of water.

**Inhalation**
Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Seek medical aid.

**Ingestion**
Rinse mouth with water, drink large quantities of water and seek medical aid.

**Notes to Physician**
Treat symptomatically

5. Fire-Fighting Measures

**Flammable Properties**
No information available

**Flash Point**
No information available

**Suitable Extinguishing Media**
Alcohol foam, water fog, CO2 or dry chemical

**Hazardous Combustion Products**
No information available

**Protective Equipment and Precautions for Firefighters**
Self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

**Personnel Precautions**
Use personnel protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Methods for Containment & Cleaning**
Soak up with non-combustible absorbent material. Rinse affected area with copious amounts of water. Dispose of in accordance with applicable federal, state, and local laws and regulations.
7. Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – No Smoking. Take measures to prevent buildup of electrostatic charge.

Storage
Keep container closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials.

Specific use
See Section 1 – Recommended Use

8. Exposure Controls / Personnel

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Chloro-2-methyl-4-isothiazolin-3-one</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>2-Methyl-4-isothiazolin-3-one</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Ammonium Hydrogen fluoride</td>
<td>Not listed</td>
<td>PEL: 2.5 mg/m³ REL; 2.5 mg/m³ TLV; 2.5 mg/m³ EL; 2.5 mg/m³</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Engineering Measures
Showers
Eye Wash Stations
Ventilation Systems

Personnel Protective Equipment
Eye/Face Protection
Safety goggles with side-shields

Skin Protection
Wear protective gloves/clothing

Respiratory Protection
If exposure limits are exceeded or irritation is experienced; NISOH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required high airborne containment concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures
Complete suit protecting against chemicals, Flame resistant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Environment Exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and Chemical Properties

Appearance
Clear Colorless Liquid

Odor
No information available

Odor Threshold
No information available

pH
No information available

Melting Point
No information available

Freezing Point
0°C

Initial Boiling Point
Approx. 100 °C

Flash Point
No information available

Evaporation Rate
No information available

Flammability (solid, gas)
No information available

Upper/Lower flammability
No information available
or explosive limits
Vapor pressure No information available
Vapor density No information available
Relative density No information available
Water Solubility No information available
Partition coefficient: (n-octanol/water) No information available
Auto-ignition temperature No information available
Decomposition Temperature °C No information available
Viscosity No information available
Explosive properties No information available
Oxidizing properties No information available

10. Stability and Reactivity
Reactivity No information available
Chemical Stability Stable
Incompatible Materials Strong Oxidizing Agents
Hazardous Decomposition Products No information available
Hazardous Polymerization: Will not occur
Conditions to avoid: No information available
Suggested Storage: Store as recommended on product label

11. Toxicological Information
Acute Toxicity No information available
Chronic Toxicity Corrosive to skin and eyes. Abdominal pain discomfort, nausea and diarrhea. Irritation of affected area.
Target Organ Effects No information available
Carcinogenicity IARC: 2A – Group 2A: Probably carcinogenic to humans (magnesium nitrate hexahydrate)
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

12. Ecological Information
Ecotoxicity Toxic to fish, daphnia and other aquatic invertebrates.

13. Disposal Considerations
Waste Disposal Method In accordance with applicable federal, state, and local laws and regulations.
Contaminated Packaging In accordance with applicable federal, state, and local laws and regulations.

14. Transport Information
IATA
No Restrictions

DOR
No Restrictions

15. Regulatory Information

SARA 302 Components
No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts right to know components
Magnesium nitrate hexahydrate 13446-18-9 1993-04-24

Pennsylvania right to know components
Magnesium nitrate hexahydrate 13446-18-9 1993-04-24
2-Methyl-4-isothiazolin-3-one 2682-20-4
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione 6440-58-0

New Jersey right to know components
Magnesium nitrate hexahydrate 13446-18-9 1993-04-24
5-chloro-2-methyl-4-isothiazolin-3-one 26172-55-4
Magnesium chloride 7786-30-3
2-Methyl-4-isothiazolin-3-one 2682-20-4
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione 6440-58-0

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Issuing Date
31-December-2008

Revision Date
30-November-2015

Revision Note
No information available

Recommended Restrictions
No Restrictions

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in text.