

## 1. Product and Company Identification

### Product Identifier

<b>Product Name:</b>	Fluid Pack
<b>Product Code:</b>	IL-2121D (IL-2121AD contains 5-Chloro-2-methyl-4-isothiazolin-3-one, 2-Methyl-4-isothiazolin-3-one, and 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione) (IL-2121BD contains 5-Chloro-2-methyl-4-isothiazolin-3-one, 2-Methyl-4-isothiazolin-3-one, and 1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione) (IL-2121CD contains Ammonium Hydrogen fluoride)
<b>Recommended Use:</b>	To provide calibration points for the Na+, K+, Cl- and Li+ electrodes.
<b><u>Company</u></b>	Diamond Diagnostics Inc. 333 Fiske Street Holliston, MA 01746
<b>Company Phone Number</b>	508-429-0450
<b>Email</b>	<a href="mailto:support@diamonddiagnostics.com">support@diamonddiagnostics.com</a>
<b>Emergency Telephone No:</b>	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).

P333 + P313  
P337 + P313  
P342 + P311  
P363  
P391  
P403 + P233:  
P405  
P501

If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
Wash contaminated clothing before reuse.  
Collect spillage.  
Store in a well ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/Information on ingredients

Chemical Name	EC No.	Reach Reg. No.	CAS-No.	Weight %	Classification
5-Chloro-2-methyl-4-isothiazolin-3-one	247-500-7	Not available	26172-55-4	< 1%	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
2-Methyl-4-isothiazolin-3-one	220-239-6	Not available	2682-20-4	< 1%	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
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione	229-222-8	Not available	6440-58-0	< 1%	Acute Tox. 4; Eye Irrit. 2A; Resp Sens 1; H302, H319, H334
Ammonium Hydrogen fluoride	215-676-4	Not available	1341-49-7	< 1%	Not available

### 4. First Aid Measures

<b>Eye Contact</b>	Flush affected area with copious amount of water.
<b>Skin Contact</b>	Flush affected area with copious amounts of water.
<b>Inhalation</b>	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Seek medical aid.
<b>Ingestion</b>	Rinse mouth with water, drink large quantities of water and seek medical aid.
<b>Notes to Physician</b>	Treat symptomatically

### 5. Fire-Fighting Measures

<b>Flammable Properties</b>	No information available
<b>Flash Point</b>	No information available
<b>Suitable Extinguishing Media</b>	Alcohol foam, water fog, CO2 or dry chemical
<b>Hazardous Combustion Products</b>	No information available
<b>Protective Equipment and Precautions for Firefighters</b>	Self-contained breathing apparatus and protective clothing.

### 6. Accidental Release Measures

<b>Personnel Precautions</b>	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.
<b>Methods for Containment &amp; Cleaning</b>	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.

**Environmental Precautions** Do not let product enter drains.

## 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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
5-Chloro-2-methyl-4-isothiazolin-3-one 26172-55-4	Not listed	Not listed	Not listed
2-Methyl-4-isothiazolin-3-one 2682-20-4	Not listed	Not listed	Not listed
1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione 6440-58-0	Not listed	Not listed	Not listed
Ammonium Hydrogen fluoride 1341-49-7	Not listed	PEL; 2.5 mg/m3 REL; 2.5 mg/m3 TLV; 2.5 mg/m3 EL; 2.5 mg/m3	Not listed

**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** 124-125°C

**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

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

## 10. Stability and Reactivity

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

## 11. Toxicological Information

<b>Acute Toxicity</b>	No information available
<b>Chronic Toxicity</b>	Corrosive to skin and eyes. Abdominal pain discomfort, nausea and diarrhea. Irritation of affected area.
<b>Target Organ Effects</b>	No information available
<b>Carcinogenicity</b>	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

<b>Ecotoxicity</b>	Toxic to fish, daphnia and other aquatic invertebrates.
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## 13. Disposal Considerations

<b>Waste Disposal Method</b>	In accordance with applicable federal, state, and local laws and regulations.
<b>Contaminated Packaging</b>	In accordance with applicable federal, state, and local laws and regulations.

## 14. Transport Information

<b>IATA</b>	No Restrictions
<b>DOR</b>	No Restrictions

## 15. Regulatory Information

<b>SARA 302 Components</b>	No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components</b>	The following components are subject to reporting levels established by SARA Title III, Section 313.
<b>SARA 311/312 Hazards</b>	Acute Health Hazard, Chronic Health Hazard

### Massachusetts right to know components

Magnesium nitrate hexahydrate	CAS-No. 13446-18-9	Revision Date: 1993-04-24
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### Pennsylvania right to know components

Magnesium nitrate hexahydrate	CAS-No. 13446-18-9	Revision Date: 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	CAS-No. 13446-18-9	Revision Date: 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

<b>Issuing Date</b>	31-December-2008
<b>Revision Date</b>	30-November-2015
<b>Revision Note</b>	No information available
<b>Recommended Restrictions</b>	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.