Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Simoa IL-1b 2.0 Reagent Kit</th>
<th>Manufacturer</th>
<th>Quanterix Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A kit of reagents to be used on the Quanterix instrument (Simoa) for the detection and quantification of purified proteins. Kit consists of a mixture of reagents that are non-hazardous, non-toxic and non-infectious compounds; not for human use.</td>
<td>Address</td>
<td>113 Hartwell Avenue</td>
</tr>
<tr>
<td>Product Number</td>
<td>101605</td>
<td>Telephone</td>
<td>(617) 301-9400</td>
</tr>
<tr>
<td>MSDS Issued</td>
<td>December 30, 2015</td>
<td>CHEMTREC</td>
<td>(800) 424-9300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Customer #</td>
<td>21132</td>
</tr>
</tbody>
</table>

*Intended Use of the Product*  
Immunoassay on Simoa HD-1; For Research Use Only. Not for Diagnostic Purposes.

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture Classification (GHS-US)  
Not classified

Label Elements  
GHS-US Labeling  
Not applicable

Other Hazards  
No additional information available

Unknown Acute Toxicity (GHS-US):  
No data available
3. **COMPOSITION – INFORMATION ON INGREDIENTS**

### Bead Reagent

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Percent Composition</th>
<th>EINECS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>90-100%</td>
<td>Not classified</td>
</tr>
<tr>
<td>Tris(hydroxymethyl)aminomethane</td>
<td>77-86-1</td>
<td>0.1-1%</td>
<td>201-064-4</td>
</tr>
<tr>
<td>Tris(hydroxymethyl)aminomethane hydrochloride</td>
<td>118-53-1</td>
<td>0.1-1%</td>
<td>214-684-5</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>0.1-1%</td>
<td>231-598-3</td>
</tr>
<tr>
<td>Ethylenediaminetetraacetic acid disodium salt dihydrate</td>
<td>6381-92-6</td>
<td>0.1-1%</td>
<td>200-449-4</td>
</tr>
<tr>
<td>Bovine Serum Albumin</td>
<td>9048-46-8</td>
<td>1-10%</td>
<td>232-936-2</td>
</tr>
<tr>
<td>Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone</td>
<td>55965-84-9</td>
<td>0.1-1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Tween 20</td>
<td>9005-64-5</td>
<td>0.1-1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Antifoaming agent</td>
<td>Unlisted</td>
<td>0.01-0.1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Carboxylated paramagnetic beads (microparticles), 2.7 um conjugated with Purified anti-IL-1b antibody</td>
<td>Unlisted</td>
<td>0.01-0.1%</td>
<td>Unlisted</td>
</tr>
</tbody>
</table>

### Detector Reagent

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Percent Composition</th>
<th>EINECS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>90-100%</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium phosphate, dibasic</td>
<td>7558-79-4</td>
<td>1-10%</td>
<td>231-448-7</td>
</tr>
<tr>
<td>Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>0.01-0.1%</td>
<td>231-913-4</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>7447-40-7</td>
<td>0.01-0.1%</td>
<td>231-211-8</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>0.1-1%</td>
<td>231-598-3</td>
</tr>
<tr>
<td>Ethylenediaminetetraacetic acid disodium salt dehydrate</td>
<td>6381-92-6</td>
<td>0.1-1%</td>
<td>200-449-4</td>
</tr>
<tr>
<td>Bovine Serum Albumin</td>
<td>9048-46-8</td>
<td>1-10%</td>
<td>232-936-2</td>
</tr>
<tr>
<td>Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone</td>
<td>55965-84-9</td>
<td>0.1-1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Interference blocker</td>
<td>Unlisted</td>
<td>0.1-1.0%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Anti-IL-1b antibody</td>
<td>Unlisted</td>
<td>Not applicable</td>
<td>Unlisted</td>
</tr>
</tbody>
</table>
### Sample Diluent

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Percent Composition</th>
<th>EINECS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
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<td>Not classified</td>
</tr>
<tr>
<td>Sodium phosphate, dibasic</td>
<td>7558-79-4</td>
<td>0.1-1%</td>
<td>231-448-7</td>
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<tr>
<td>Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>0.01-0.1%</td>
<td>231-913-4</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>0.5-5.0%</td>
<td>231-598-3</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>7447-40-7</td>
<td>0.01-0.1%</td>
<td>231-211-8</td>
</tr>
<tr>
<td>Ethylenediaminetetraacetic acid disodium salt dihydrate</td>
<td>6381-92-6</td>
<td>0.1-1%</td>
<td>200-449-4</td>
</tr>
<tr>
<td>Bovine Serum Albumin</td>
<td>9048-46-8</td>
<td>0.01-0.1%</td>
<td>232-936-2</td>
</tr>
<tr>
<td>Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone</td>
<td>55965-84-9</td>
<td>0.1-1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Tween 20</td>
<td>9005-64-5</td>
<td>0.1-1.0%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Interference blocker</td>
<td>Unlisted</td>
<td>0.01-0.1%</td>
<td>Unlisted</td>
</tr>
</tbody>
</table>

### SBG Reagent

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Percent Composition</th>
<th>EINECS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>90-100%</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium phosphate, dibasic</td>
<td>7558-79-4</td>
<td>1-5%</td>
<td>231-448-7</td>
</tr>
<tr>
<td>Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>0.5-2%</td>
<td>231-913-4</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>0.1 – 1%</td>
<td>231-211-8</td>
</tr>
<tr>
<td>Ethylenediaminetetraacetic acid disodium salt dihydrate</td>
<td>6381-92-6</td>
<td>0.1-1%</td>
<td>200-449-4</td>
</tr>
<tr>
<td>Bovine Serum Albumin</td>
<td>9048-46-8</td>
<td>1-10%</td>
<td>232-936-2</td>
</tr>
<tr>
<td>Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone</td>
<td>55965-84-9</td>
<td>0.1-1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Tween 20</td>
<td>9005-64-5</td>
<td>0.1-1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Magnesium chloride</td>
<td>7786-30-3</td>
<td>0.1-1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Enzyme Conjugate</td>
<td>Unlisted</td>
<td>0.01-0.1%</td>
<td>Unlisted</td>
</tr>
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</table>

### RGP Reagent

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Percent Composition</th>
<th>EINECS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>90-100%</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium phosphate, dibasic</td>
<td>7558-79-4</td>
<td>0.1-0.5%</td>
<td>231-448-7</td>
</tr>
<tr>
<td>Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>0.01-0.1%</td>
<td>231-913-4</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>7447-40-7</td>
<td>0.01-0.1%</td>
<td>231-211-8</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>0.1-1%</td>
<td>231-598-3</td>
</tr>
<tr>
<td>Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone</td>
<td>55965-84-9</td>
<td>0.1-0.5%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Pluronic F-127</td>
<td>9003-11-6</td>
<td>0.01-0.1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Resorufin b-galactopyranoside</td>
<td>95079-19-9</td>
<td>0.001-0.01%</td>
<td>Unlisted</td>
</tr>
</tbody>
</table>
### Calibrators

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Percent Composition</th>
<th>EINECS number</th>
</tr>
</thead>
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<tr>
<td>Water</td>
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<td>1-10%</td>
<td>231-448-7</td>
</tr>
<tr>
<td>Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>0.1-1%</td>
<td>231-913-4</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>0.5-5%</td>
<td>231-598-3</td>
</tr>
<tr>
<td>Potassium chloride</td>
<td>7447-40-7</td>
<td>0.01-0.1%</td>
<td>231-211-8</td>
</tr>
<tr>
<td>Ethylenediaminetetraacetic acid disodium salt dihydrate</td>
<td>6381-92-6</td>
<td>0.2-2%</td>
<td>200-449-4</td>
</tr>
<tr>
<td>Tween 20</td>
<td>9005-64-5</td>
<td>0.1-1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>Interference blocker</td>
<td>Unlisted</td>
<td>0.01-0.1%</td>
<td>Unlisted</td>
</tr>
<tr>
<td>IL-1b Antigen</td>
<td>Unlisted</td>
<td>0.1-10%</td>
<td>Unlisted</td>
</tr>
</tbody>
</table>

* These ingredients, within the current knowledge of the supplier and in the concentrations applicable, are not classified as hazardous to health or to the environment.

### 4. FIRST AID MEASURES

**Description of First Aid Measures**

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

**Symptoms/Injuries:** None expected under normal conditions of use.

**Symptoms/Injuries After Skin Contact:** Contact during a long period may cause light irritation.

**Symptoms/Injuries After Eye Contact:** Direct contact with the eyes is likely irritating.

**Symptoms/Injuries After Ingestion:** May be harmful if swallowed.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

If medical advice is needed, have product container or label at hand.
5. **FIRE FIGHTING MEASURES**

5.1. **Extinguishing Media**
Suitable Extinguishing Media: Alcohol foam, polymer foam, dry chemical powder, carbon dioxide, water spray, fog.

Unsuitable Extinguishing Media: None known.

5.2. **Special Hazards Arising From the Substance or Mixture**
Fire Hazard: Not flammable.
Explosion Hazard: Product is not explosive.
Reactivity: If the product is involved in a fire, it can release toxic chlorine gases.

5.3. **Advice for Firefighters**
Firefighting Instructions: Exercise caution when fighting any chemical fire.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

6. **ACCIDENTAL RELEASE MEASURES**

6.1. **Personal Precautions, Protective Equipment and Emergency Procedures**
General Measures: Do not breathe fumes from fires or vapours from decomposition.

6.1.1. **For Non-emergency Personnel**
Protective Equipment: Use appropriate personal protection equipment (PPE).

6.1.2. **For Emergency Responders**
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Ventilate area.

6.2. **Environmental Precautions**
Prevent entry to sewers and public waters.

6.3. **Methods and Material for Containment and Cleaning Up**
For Containment: Absorb and/or contain spill with inert material, then place in suitable container.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

6.4. **Reference to Other Sections**
See heading 8, Exposure Controls and Personal Protection.

7. **HANDLING AND STORAGE**
Handling: Refer to section 8. Wear appropriate personal protective equipment when using this product.
Storage: Some contents storage at 2-8 degrees Celsius and others at -20 degrees Celsius.
8. **EXPOSURE CONTROLS, PERSONAL PROTECTION**

<table>
<thead>
<tr>
<th>Control Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EXPOSURE CONTROLS</strong></td>
</tr>
<tr>
<td><strong>PERSONAL PROTECTION</strong></td>
</tr>
<tr>
<td><strong>Appropriate Engineering Controls</strong></td>
</tr>
<tr>
<td>: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.</td>
</tr>
<tr>
<td><strong>Personal Protective Equipment</strong></td>
</tr>
<tr>
<td>: Gloves, in case of splash hazard; safety glasses.</td>
</tr>
</tbody>
</table>

**Hand Protection** : Wear chemically resistant protective gloves.
**Eye Protection** : Chemical goggles or safety glasses.
**Other Information** : When using, do not eat, drink or smoke.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

| Appearance: |
| Clear Liquid |
| Odor: |
| Odorless |
| Solubility: |
| Miscible in water |
| Physical state: |
| Liquid |
| Melting Point: |
| Not Available |
| Boiling Point: |
| Not Available |
| Vapor Pressure: |
| Not Available |
| Vapor Density: |
| Not Available |
| pH: |
| 7.0-8.0 |
| Evaporation Rate: |
| Not Available |

10. **STABILITY AND REACTIVITY**

| Incompatibility: (materials to avoid) |
| None known |
| Stability: |
| Stable |
| Hazardous Polymerization: |
| None |
| Conditions to Avoid: |
| None |
11. TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

**Acute Toxicity:** Not classified

<table>
<thead>
<tr>
<th>Chemical</th>
<th>LD50 Oral Rat</th>
<th>LD50 Dermal Rabbit</th>
<th>LC50 Inhalation Rate (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium chloride (7447-00-0)</td>
<td>2600 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dihydrogen potassium phosphate (7778-74-0)</td>
<td>&gt; 4640 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium chloride (7647-14-5)</td>
<td>3 g/kg</td>
<td>&gt; 10 g/kg</td>
<td>&gt; 42 g/m³ (Exposure time: 1 h)</td>
</tr>
<tr>
<td><strong>Mixture, 3(2H)-isothiazolone, 5-chloro-2-methyl- with 2-methyl-3(2H)-isothiazolone (55965-84-9)</strong></td>
<td><strong>53 mg/kg</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Skin Contact:** Contact during a long period may cause light irritation.

**Symptoms/Injuries After Eye Contact:** Direct contact with the eyes is likely irritating.

**Symptoms/Injuries After Ingestion:** May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

Data not yet available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national and international regulations.

14. TRANSPORTATION INFORMATION

To the best of our knowledge, this product is not regulated as a hazardous material.

15. REGULATORY INFORMATION
US Federal Regulations

<table>
<thead>
<tr>
<th>Description</th>
<th>Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium chloride (7447-40-7)</td>
<td>Listed on the United States TSCA (TSCA)</td>
</tr>
<tr>
<td>Dilhydrogen potassium phosphate (7787-77-0)</td>
<td>Listed on the United States TSCA (TSCA)</td>
</tr>
<tr>
<td>Sodium chloride (7647-14-5)</td>
<td>Listed on the United States TSCA (TSCA)</td>
</tr>
<tr>
<td>Water (7732-18-5)</td>
<td>Listed on the United States TSCA (TSCA)</td>
</tr>
<tr>
<td>Polyoxyethylene sorbitan monolaurate (9005-64-5)</td>
<td>Listed on the United States TSCA (TSCA)</td>
</tr>
</tbody>
</table>

US State Regulations

<table>
<thead>
<tr>
<th>Description</th>
<th>Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium chloride (7447-40-7)</td>
<td>Texas - Effects Screening Levels - Long Term</td>
</tr>
<tr>
<td></td>
<td>Texas - Effects Screening Levels - Short Term</td>
</tr>
<tr>
<td>Sodium chloride (7647-14-5)</td>
<td>Texas - Effects Screening Levels - Long Term</td>
</tr>
<tr>
<td></td>
<td>Texas - Effects Screening Levels - Short Term</td>
</tr>
<tr>
<td>Polyoxyethylene sorbitan monolaurate (9005-64-5)</td>
<td>Texas - Effects Screening Levels - Long Term</td>
</tr>
<tr>
<td></td>
<td>Texas - Effects Screening Levels - Short Term</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Disclaimer:
The information and recommendations contained herein are based upon tests believed to be
reliable. However, Quanterix Corporation does not guarantee their accuracy or completeness
NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER
EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY
OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE.
Adjustment to conform to actual conditions of usage may be required. Quanterix Corporation
assumes no responsibility for results obtained or for incidental or consequential damages,
including lost profits arising from the use of these data. No warranty against infringement of any
patent, copyright or trademark is made or implied.