Safety Data Sheet
EP Stool Sample Preparation Kit

1. Identification

1.1. Product identifier

Product Identity: EP Stool Sample Preparation Kit

Alternate Names: 30-002-023 EP Stool Sample Preparation Kit
20-005-023 Verigene® Enteric (EP) Nucleic Acid Test Kit

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: See Technical Data Sheet.

Application Method: See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name: Nanosphere, Inc
4088 Commercial Ave.
Northbrook, IL 60062

Contact Information: PHONE/FAX: (847) 400-9000 / (847) 400-9199
e-mail address: technicalsupport@nanosphere.us

Emergency Telephone Number: In Case of Emergency Contact: CHEMTREC- 24 Hr.Info
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

In Country/Regional Emergency Contact:
South Africa: 0-800-983-611
Argentina (Buenos Aires): +(54)-1159839431
Brazil (Rio De Janeiro): +(55)-2139581449
Chile (Santiago): +(56)-225814934
Colombia: 01800-7102151
Mexico: 01-800-681-9531
Peru (Lima): +(51)-17071295
Bahrain: +(973)-16199372
China: 4001-204937
Hong Kong: 800-968-793
India: 000-800-100-7141
Israel (Tel Aviv): +(972)-37630639
Japan (Tokyo): +81-345209637
Russia: 8-800-100-6346
Saudi Arabia: +(966)-8111095861
Australia (Sydney): +(61)-290372994
New Zealand (Auckland): +(64)-98010034
Austria (Vienna): +(43)-13649237
Belgium (Brussels): +(32)-28083237
Bulgaria (Plovdiv): +(359)-32570104
France: +(33)-975181407
Germany: 0800-181-7059
2. Hazard(s) identification

2.1. Classification of the substance or mixture

The EP Stool Prep Buffer is not classified as being dangerous according to OSHA or Directive 1999/45/EC.

2.2. Label elements

Labelling according to Directive 1999/45/EC. This product is not considered hazardous and does not need any dangerous labeling. No pictogram required.

2.3. Other hazards

The dangerous properties of the mixture have not been fully investigated. The mixture may cause irritation of the eyes and skin and may cause irritation by inhalation or ingestion. Toxicologically properties have not been fully investigated.

2.4. NFPA Rating: Health: 1  Flammability: 0  Reactivity Hazard: 0

2.5. Potential Health Effects

There are no hazardous reagents present in concentration ≥ 1%.

Inhalation: May be irritating to the respiratory system.

Eye Contact: May be irritating to the eyes.

Skin Contact: May be irritating to the skin.

Ingestion: May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Chronic Exposure: Specific chronic toxicological information for this product’s formulation has not been determined, although significant care should be taken to avoid exposure.

2.6. Aggravation of Pre-existing Conditions: No information available.

Note: The CHEMTREC phone number(s) is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our local phone number.
3. Composition/information on ingredients

Calcium Chloride

<table>
<thead>
<tr>
<th>CAS</th>
<th>EC nr.</th>
<th>Registration nr.</th>
<th>Concentration</th>
<th>Classification</th>
<th>OSHA PEL-TWA</th>
<th>OSHA PEL- STEL</th>
<th>ACGIH TWA (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10035-04-8</td>
<td>NA</td>
<td>NA</td>
<td>&lt;1% by weight</td>
<td>Xi; R36/37/38; S24/25; S37</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
</tbody>
</table>

R36/37/38 Irritating to eyes, respiratory system and skin
S24/S25 Avoid contact with skin and eyes
S37 Wear suitable gloves

4. First aid measures

4.1. Description of first aid measures

General Consult a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Eyes Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Wash off immediately with plenty of soap and water for at least 15 minutes. Consult a physician.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Keep product away from heat and sources of ignition.

5.3. Advice for fire-fighters
Wear self-contained breathing apparatus for fighting if necessary. Use personal protective equipment.

### 6. Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid breathing vapors, mist, spray or gas. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. (See Section 8).

**6.2. Environmental precautions**
Should not be released into the environment. Prevent product for entering drains.

**6.3. Methods and material for containment and cleaning up**
Soak up with inert absorbent material and dispose of while observing environmental regulations. Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections**
For disposal see Section 13.

### 7. Handling and storage

**7.1. Precautions for safe handling**
Avoid contact with skin, eyes and clothing. Avoid inhalation and ingestion. Provide appropriate exhaust ventilation. Wear personal protective equipment.
See section 2 for further details. - [Prevention]:

**7.2. Conditions for safe storage, including any incompatibilities**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
See section 2 for further details. - [Storage]:

**7.3. Specific end use(s)**
For use with the EP Nucleic Acid Test Kit

### 8. Exposure controls and personal protection

**8.1. Control parameters**
Components with workplace control parameters: No data available.

**8.2. Exposure controls**
Appropriate Engineering Controls:
Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Personal Protective Equipment:**

**Respiratory Protection**
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Eyes/Face Protection**
Safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection**
Wear appropriate protective gloves

**Body protection**
Lightweight protective clothing

**Other Work Practices**
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Pink Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not established.</td>
</tr>
<tr>
<td>pH</td>
<td>Approximately 7</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate (Ether = 1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure (Pa)</td>
<td>Not established.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not established.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>Not established</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity (cSt)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

No other relevant information.
10. Stability and reactivity

10.1. Reactivity:
No data available

10.2. Chemical stability:
Stable under normal conditions.

10.3. Possibility of hazardous reactions:
No data available.

10.4. Conditions to avoid:
Incompatible product. Excess heat.

10.5. Incompatible materials:
Strong oxidizing agents.

10.6. Hazardous decomposition products:
Carbon monoxide, Carbon dioxide.

11. Toxicological information

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>LD50 – No data available</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>---</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>---</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Not Applicable. No component of this product present at levels ≥ 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>---</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>---</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>---</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Potential health effects

Inhalation – May cause respiratory tract irritation
Ingestion – May cause irritation
Skin – May cause skin irritation
Eyes – May cause eye irritation

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

12.1. Toxicity
Calcium chloride:
Toxicity to fish: LC50 Lepomis macrochirus – 10650 mg/l (96 h)
Toxicity to water flea: EC50 – 3005 mg/l (48 h)

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
IoG Pow 0.05

12.5. Results of PBT and vPvB assessment
No data available.

12.6. Other adverse effects
No data available

13. Disposal considerations

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.
Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Used EP Stool Prep Kit should be treated as biohazardous waste.
Contaminated packaging: Dispose of as unused product.
14. Transport information

US: None of the components in the EP Stool Preparation Sample Kit are hazardous as defined by the US Department of Transport.

IATA: None of the components in the EP Stool Preparation Sample Kit are regulated.

EU: No restrictions apply due to the low volumes.

15. Regulatory information

Regulatory Overview  This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

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

U.S. SARA REPORTING REQUIREMENTS: The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21): ACUTE: Yes; CHRONIC: No; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable

U.S. TSCA INVENTORY STATUS: Components of this product are not listed on the TSCA Inventory

OTHER U.S. FEDERAL REGULATIONS: Not applicable.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Components of this product are not on the California Proposition 65 lists.

15.2. Chemical Safety Assessment

No data available

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no
guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a 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 the text. It remains the user’s own responsibility to make sure that the information is appropriate and complete for his specific use of this product. The user is also responsible for observing any laws and applicable guidelines.

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