1. Product and Company Identification

Material name: Calcium Reagent

<table>
<thead>
<tr>
<th>Version #</th>
<th>Issue date</th>
<th>Revision date</th>
<th>Supersedes date</th>
<th>CAS #</th>
<th>Kit number</th>
<th>Product use</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>04-18-2013</td>
<td>-</td>
<td>-</td>
<td>Mixture</td>
<td>140-20; 140-24; 140-20-91</td>
<td>For the in vitro quantitative determination of calcium in serum. For In Vitro Diagnostic use only.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Calcium Arsenazo III stable liquid reagent.</td>
</tr>
</tbody>
</table>

Manufacturer information

Corporate Headquarters: Sekisui Diagnostics, LLC
4 Hartwell Place, Lexington, MA 02421, USA
www.sekisuidiagnostics.com
Phone: 800-332-1042

Emergency Telephone Numbers
Americas 1-760-476-3962
Europe, Middle East & Africa +1-760-476-3961
Asia Pacific +1-760-476-3960
Access code 333512

2. Hazards Identification

Physical state: Liquid.
Appearance: Red to purple liquid.
Emergency overview: Health injuries are not known or expected under normal use.
OSHA regulatory status: This product is not hazardous according to OSHA 29CFR 1910.1200.

Potential health effects

- **Routes of exposure**
  - Eyes: May cause eye irritation.
  - Skin: May cause skin irritation.
  - Inhalation: In high concentrations, vapors may be irritating to the respiratory system.
  - Ingestion: May cause discomfort if swallowed.

Target organs: Eyes.
Chronic effects: No data available.

Signs and symptoms: Direct contact with skin and eyes may cause irritation.

Potential environmental effects: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

Composition comments: Dilute, slightly acidic, aqueous solution containing small to trace amounts of salts, surfactant, formaldehyde and an arsenic-containing compound.

4. First Aid Measures

First aid procedures

- **Eye contact**: In case of contact, immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.

- **Skin contact**: For skin contact flush with large amounts of water while removing contaminated clothing. Get medical attention if irritation develops and persists.
5. Fire Fighting Measures

Flammable properties
This product is not flammable.

Extinguishing media
- Suitable extinguishing media: Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the surrounding fire.
- Unsuitable extinguishing media: None known.

Protection of firefighters
- Specific hazards arising from the chemical: None known.
- Protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous combustion products
None known.

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions
Do not allow to enter drains, sewers or watercourses.

Methods for containment
Absorb spillage with non-combustible, absorbent material.

Methods for cleaning up
Absorb spill with vermiculite or other inert material. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

Other information
Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling
Avoid contact with skin and eyes. Wash thoroughly after handling. In case of insufficient ventilation, wear suitable respiratory equipment. Handle and open container with care.

Storage
Store at 18 - 26°C. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Exposure guidelines
Follow standard monitoring procedures.

Engineering controls
Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Provide easy access to water supply and eye wash facilities.

Personal protective equipment
- Eye / face protection: Wear approved safety glasses or goggles.
- Skin protection: Wear lab coat or other protective garments. Remove contaminated clothing promptly.
- Respiratory protection: Under normal conditions, respirator is not normally required.
- General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance
Red to purple liquid.

Physical state
Liquid.

Form
Liquid.

Color
Red to purple.

Odor
No data available.

Odor threshold
Not available.
**10. Chemical Stability & Reactivity Information**

**Chemical stability**
Material is stable under normal conditions.

**Conditions to avoid**
No data available.

**Incompatible materials**
Water reactive materials.

**Hazardous decomposition products**
None known.

**Possibility of hazardous reactions**
Hazardous polymerization does not occur.

**11. Toxicological Information**

**Sensitization**
Not classified.

**Acute effects**
May cause discomfort if swallowed.

**Local effects**
Ingestion may cause irritation and malaise.

**Chronic effects**
No data available.

**Carcinogenicity**
Not classifiable as to carcinogenicity to humans.

**Epidemiology**
No epidemiological data is available for this product.

**Mutagenicity**
Not classified.

**Reproductive effects**
Not classified.

**Symptoms and target organs**
Direct contact with skin and eyes may cause irritation.

**Further information**
No other specific acute or chronic health impact noted.

**12. Ecological Information**

**Ecotoxicity**
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Environmental effects**
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Persistence and degradability**
No data is available on the degradability of this product.

**Bioaccumulation / Accumulation**
Not available.

**Mobility in environmental media**
The product is completely soluble in water.

**13. Disposal Considerations**

**Disposal instructions**
Contaminated instruments and surfaces should be disinfected in accordance with your employer's chemical-specific and universal/standard precautions.

**Waste from residues / unused products**
Dispose in accordance with all applicable regulations.

**Contaminated packaging**
Empty containers should be taken to an approved waste handling site for recycling or disposal.
14. Transport Information

DOT
Not regulated as a hazardous material by DOT.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

TDG
Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations
This product is not hazardous according to OSHA 29CFR 1910.1200. This mixture is a component of an in vitro diagnostic device regulated by the U.S. Food and Drug Administration.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)
- Hazard categories
  Immediate Hazard - Yes
  Delayed Hazard - No
  Fire Hazard - No
  Pressure Hazard - No
  Reactivity Hazard - No
- Section 302 extremely hazardous substance (40 CFR 355, Appendix A)
  No
- SARA 311/312 Hazardous chemical
  No
- Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)
  Not controlled

Canadian regulations
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status
Non-controlled

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
* "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
- Formaldehyde (CAS 50-00-0) Listed.
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
Formaldehyde (CAS 50-00-0) Listed: January 1, 1988 Carcinogenic.

US. Massachusetts RTK - Substance List
Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
Not regulated.

US. Pennsylvania RTK - Hazardous Substances
Not regulated.

Mexico regulations
This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

16. Other Information

Recommended restrictions
Use in accordance with supplier's recommendations.

Further information
HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
Health: 1
Flammability: 0
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 0
Instability: 0

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