SECTION 1: Identification of the substance or mixture and the company or undertaking

1.1 Product identifier

Product type: Mixture
Trade name: CA4840 Calcium Stearate Dispersion, 50%, Low pH
Label name: CA4840 Calcium Stearate Dispersion, 50%, Low pH
Chemical name: Calcium Stearate Dispersion
CAS number: Mixture.
EC number: None.

1.2 Recommended and restricted uses of the substance or mixture

Recommended uses: Lubricants
Restricted uses: None known.

1.3 Company identification

Company name: Chemical Associates – A Division of Univar USA Inc.
Company address: 1270 South Cleveland Massillon Road
: Copley, OH 44321-1683
Company telephone: 330-666-5200

1.4 Emergency telephone number

Company emergency telephone: 800-347-2891
CHEMTREC telephone: 800-424-9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (29CFR1910.1200): Eye irritation category 2B.
Appendix A): Skin irritation category 3.
GHS physical hazard: None identified
GHS health hazard: Eye irritation category 2B.
GHS environmental hazard: Skin irritation category 3.

2.2 Label warnings of the substance or mixture

Signal word: Warning.
Hazard statements: H316 Causes mild skin irritation
CA4840 Calcium Stearate Dispersion, 50%, Low pH
Safety Data Sheet

Precautionary statements:

- H320 Causes eye irritation.
- P264 Wash hands thoroughly after handling.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P332+313 If skin irritation occurs: Get medical advice/attention.
- P337+313: If eye irritation persists get medical advice/attention.

2.3 Hazards not otherwise classified

Other hazards: No additional information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name</th>
<th>Percent</th>
<th>CAS number</th>
<th>Health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name</th>
<th>Typical %</th>
<th>CAS number</th>
<th>Health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octadecanoic acid, calcium salt</td>
<td>Calcium Stearate</td>
<td>&lt;50</td>
<td>1592-23-0</td>
<td>Irritant</td>
</tr>
<tr>
<td>Water</td>
<td>Water</td>
<td>50</td>
<td>7732-18-5</td>
<td>None</td>
</tr>
<tr>
<td>Alcohols, ethoxylated</td>
<td>Ethoxylated linear alcohol</td>
<td>&lt;3</td>
<td>7732-18-5</td>
<td>None</td>
</tr>
</tbody>
</table>

SECTION 4: First-aid measures

4.1 Description of first-aid measures

<table>
<thead>
<tr>
<th>Exposure route</th>
<th>First-aid measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Remove the victim into fresh air. Observe victim’s breathing. If breathing is labored seek immediate medical attention.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Wash immediately with soap and water. If irritation occurs, seek medical attention. Launder contaminated clothing.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Rinse immediately with plenty of water for 15 minutes. Remove contact lenses if present and easy to do. If irritation persists, seek immediate medical attention (ophthalmologist) attention.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Rinse mouth with plenty of water. For ingestion of large quantities seek immediate medical attention. Do not induce vomiting. Contact poison control center.</td>
</tr>
</tbody>
</table>
4.2 Most important symptoms and effects, both acute and delayed

<table>
<thead>
<tr>
<th>Symptoms after inhalation</th>
<th>May experience dizziness and headache.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Irritation of the nose and throat.</td>
</tr>
<tr>
<td>Symptoms after skin contact</td>
<td>Mild irritation of the skin may occur.</td>
</tr>
<tr>
<td>Symptoms after eye contact</td>
<td>Irritation of the eye tissue.</td>
</tr>
<tr>
<td></td>
<td>May cause corneal inflammation.</td>
</tr>
<tr>
<td>Symptoms after ingestion</td>
<td>Mild tingling of the tongue and mouth.</td>
</tr>
<tr>
<td></td>
<td>May cause gastrointestinal irritation, nausea and vomiting.</td>
</tr>
</tbody>
</table>

4.3 Indication of any immediate medical attention and special treatment needed

<table>
<thead>
<tr>
<th>Treatment after inhalation</th>
<th>If breathing is labored seek immediate medical attention.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment after skin contact</td>
<td>If skin irritation persists seek immediate medical attention.</td>
</tr>
<tr>
<td>Treatment after eye contact</td>
<td>If eye irritation persists seek immediate ophthalmologist attention.</td>
</tr>
<tr>
<td>Treatment after ingestion</td>
<td>If ingestion of a large quantity seek immediate poison control center.</td>
</tr>
</tbody>
</table>

SECTION 5: Firefighting measures

5.1 Extinguishing media

<table>
<thead>
<tr>
<th>Suitable media</th>
<th>Carbon dioxide, alcohol resistant foam and water spray.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable media</td>
<td>None known.</td>
</tr>
</tbody>
</table>

5.2 Specific hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Direct fire hazard</th>
<th>Not flammable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indirect fire hazard</td>
<td>Exposure to temperature above the flash point (&gt;100°C).</td>
</tr>
<tr>
<td>Explosive hazard</td>
<td>Exposure to temperature above the flash point (&gt;100°C).</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Reactivity with strong oxidizers.</td>
</tr>
<tr>
<td>Combustion products</td>
<td>Carbon dioxide and carbon monoxide.</td>
</tr>
</tbody>
</table>

5.3 Special protective equipment and precautions for fire-fighters

<table>
<thead>
<tr>
<th>Protective equipment</th>
<th>Full protective clothing.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precautions</td>
<td>Self contained breathing apparatus.</td>
</tr>
<tr>
<td>Emergency response guide</td>
<td>No additional information.</td>
</tr>
<tr>
<td></td>
<td>Not a hazardous material.</td>
</tr>
</tbody>
</table>

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | Mixture is an irritant. If mixture is a hot mist or dust, stay upwind. |
CA4840 Calcium Stearate Dispersion, 50%, Low pH
Safety Data Sheet

Protective equipment: Wear rubber gloves, rubber boots, face shield and chemical hazard suit. If material is a hot mist or dust wear dust mask or self contained breathing apparatus.

Emergency procedures: Dike spillage. Pick up with suitable absorbent material. Place in appropriately labeled waste containers. Keep away from streams, rivers and lakes.

6.2 Environmental precautions

Precautions: Do not discharge into drains/surface waters/groundwater.

6.3 Methods and materials for containment and cleanup

Methods: Use chemical absorbent pigs or manually spread chemical absorbent onto hot liquid spill area. After the mixture is absorbed, dispose in approved waste facility.

Materials: Approved materials include dry earth, sand, clay, chemical absorbent, vermiculite and carbon.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling temperature: About 10 - 20°C above the melt point (0°C). DO NOT ALLOW TO FREEZE.

Handling equipment: Rubber hoses or stainless steel (grade 316) lines. Stainless steel (grade 316) for pumps.

7.2 Conditions for safe storage, including any incompatibilities

Storage area: Store in dry area. Store at room temperature. Store in dyke area to contain any spills. Protect from heat.

Packaging materials: Polyethylene, stainless steel (grade 316), rubber lined or epoxy lined tanks or drums. Graphite or rubber gaskets.

Incompatibilities: Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1 Exposure controls

OSHA PEL: None.
ACGIH TLV: TWA 10 mg/m3 (for octadecanoic acid, calcium salt).
NIOSH REL: None.

8.2 Appropriate engineering controls

Engineering controls: If dust exists, install ventilation equipped with carbon canisters.
Ventilation should be 10 air exchanges per hour. Local exhaust ventilation is recommended.

### 8.3 Personal protection equipment

**Personal protective equipment:** Rubber gloves and safety glasses. Wear face shield if splashing hazard exists.

**Personal protective equipment pictograms:**

---

### SECTION 9: Physical and chemical properties

#### 9.1 Physical and chemical properties

- **Appearance:** White, opaque liquid dispersion
- **Odor:** Mild
- **Odor threshold:** No data available.
- **pH:** 7 - 10
- **Melting point:** Approximately 0°C.
- **Boiling point:** Approximately 100°C.
- **Flash point:** > 100°C.
- **Evaporation rate:** No data available.
- **Flammability:** Not flammable.
- **Lower flammability limit:** No data available.
- **Upper flammability limit:** No data available.
- **Vapor pressure:** No data available.
- **Vapor density:** No data available.
- **Density:** > 1.01 g/cm³ 20°C.
- **Solubility:** Dispersible in water.
- **Partition coefficient for n-octanol/water:** No data available.
- **Auto-ignition temperature:** Based upon the water content the product does not ignite.
- **Decomposition temperature:** No data available.
- **Viscosity:** 100 – 500 cps

#### 9.2 Other information

**Other information:** No additional information available.

### SECTION 10: Stability and reactivity

**Reactivity:** May react violently with oxidizers.
Chemical stability: Stable under storage conditions.
Possibility of hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid: Do not allow to freeze (0°C)
Incompatible materials: Oxidizers and strong bases.
Hazardous decomposition products: Carbon dioxide and carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on the likely routes of exposure

Inhalation exposure: From mist or dust.
Skin exposure: From mist or dust
Ingestion exposure: Not a likely route of exposure.
Eye contact: From mist or dust

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: Labored breathing and irritation of the lungs may occur.
Skin contact: Mild skin irritation may occur.
Ingestion: Mild irritation of the mouth, tongue, esophagus and stomach may occur.
Eye contact: Mild eye irritation may occur.

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure

Inhalation: Chronic effects are not known.
Skin contact: Chronic effects are not known.
Ingestion: Chronic effects are not known.
Eye contact: Chronic effects are not known.

11.4 Numerical measures of toxicity

Oral LD50: Rat > 5000mg/kg. No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Skin LD50: Guinea pig > 3000mg/l. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Literature data.
Ingestion LD50: Virtually nontoxic after a single ingestion.
Inhalation LC50: Rat > 200mg/l (1 hr). The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Skin primary irritation: Rabbit. Result: non-irritant. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Eye primary irritation: Rabbit. Draize test result: slightly irritating. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### 11.5 Carcinogenicity

<table>
<thead>
<tr>
<th>Source</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Toxicology Program</td>
<td>Not listed.</td>
</tr>
<tr>
<td>International Agency for Research on Cancer</td>
<td>Not listed.</td>
</tr>
<tr>
<td>OSHA</td>
<td>Not listed.</td>
</tr>
<tr>
<td>NIOSH</td>
<td>Not listed.</td>
</tr>
</tbody>
</table>

### 11.6 Other toxicological information

<table>
<thead>
<tr>
<th>Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Specific target organ toxicity, single exposure</td>
<td>No data available.</td>
</tr>
<tr>
<td>Specific target organ toxicity, repeated exposure</td>
<td>No data available.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological information

#### 12.1 Ecotoxicity aquatic

<table>
<thead>
<tr>
<th>Organism</th>
<th>EC50/EC100 (mg/l or other)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td>&gt; 100mg/l. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.</td>
</tr>
<tr>
<td>Bacteria</td>
<td>&gt; 100mg/l. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.</td>
</tr>
<tr>
<td>Rotifer</td>
<td>No data available.</td>
</tr>
<tr>
<td>Algae</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Medium</th>
<th>Degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Readily biodegradable (according to OECD criteria). The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.</td>
</tr>
<tr>
<td>Soil</td>
<td>No data available.</td>
</tr>
</tbody>
</table>
CA4840 Calcium Stearate Dispersion, 50%, Low pH
Safety Data Sheet

Air : No data available.

12.3 Bio-accumulative potential

Log Kow : No data available.

12.4 Mobility in soil

Surface tension : No data available.
Soil mobility : No data available.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available.

12.6 Other adverse effects

Air : Not dangerous to the ozone layer.
Water : None.

SECTION 13: Disposal considerations

13.1 Description of waste residues

Storage tank residues : Hot liquid residue from tank cleaning.
Empty package residues : Solid residue remaining in emptied bag or drum container.
Transport trailer residues : Hot liquid residue from transport trailer cleaning.
Absorbent material : Solid absorbent containing mixture from a spill.

13.2 Safe handling of waste residues

Storage tank residues : Refer to section 7 for safe handling.
Empty package residues : Refer to section 7 for safe handling.
Transport trailer residues : Refer to section 7 for safe handling.
Absorbent material : Refer to section 7 for safe handling.

13.3 Methods of disposal

Storage tank residues : Dispose via an approved incineration facility.
Empty package residues : Dispose via an approved land fill facility.
Transport trailer residues : Dispose only in accordance with local, state and federal regulations.

09/21/15
Absorbent material: Dispose via an approved incineration facility.
Dispose via an approved land fill facility.
Dispose only in accordance with local, state and federal regulations.

13.4 Hazardous waste classification (RCRA)

<table>
<thead>
<tr>
<th>Classification</th>
<th>Regulation</th>
<th>Listed</th>
<th>Hazardous waste number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ignitability</td>
<td>40CFR261.21</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Corrosivity</td>
<td>40CFR261.22</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Reactivity</td>
<td>40CFR261.23</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Toxicity</td>
<td>40CFR261.24</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 14: Transport information

14.1 UN number

UN number: None.

14.2 UN proper shipping name

Proper shipping name: None.

14.3 Transport hazard class

Hazard class: None.
Hazard label: None.
Hazard pictogram: None.

14.4 Packing group

Packing group: None.

14.5 Environmental hazards

Marine pollutant: Not listed.

14.6 Transport in bulk

US DOT: Not regulated.
IMDG: Not regulated.
IATA: Not regulated.
MARPOL 73/78: Not regulated.
IBC code: Not regulated.
14.7 Special precautions for user

Special precautions : No additional information available.

SECTION 15: Regulatory information

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

15.1.1 US regulations

SARA 302 (40CFR355) : Not listed.
SARA 311/312 (40CFR370.66) : Not listed.
SARA 313 (40CFR372.65) : Not listed.
CERCLA (40CFR302.4) : Not listed.
California proposition 65 : Not listed.
German WGK class : 1 (low hazard to waters).

15.1.2 Chemical inventories

TSCA USA : Listed.
AICS Australia : Listed.
DSL Canada : Listed.
EC Europe : Listed.
ECL Korea : Listed.
IECSC China : Listed.
ENCS Japan : Listed.
NzloC New Zealand : Listed.
PICCS Philippines : Listed.

15.2 Chemical safety assessment

Safety assessment :

SECTION 16: Other information

16.1 Hazard ratings

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS (USA)</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NFPA (USA)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

16.2 Safety Data Sheet information
16.3 Notice to reader

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Chemical Associates – A Division of Univar USA Inc. bears responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.