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

#### 1.1 Product identifier

<table>
<thead>
<tr>
<th>Product type</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade name</td>
<td>CA3500 Butyl Stearate</td>
</tr>
<tr>
<td>Label name</td>
<td>CA3500 Butyl Stearate</td>
</tr>
<tr>
<td>Chemical name</td>
<td>N-butyl octadecanote</td>
</tr>
<tr>
<td>CAS number</td>
<td>123-95-5</td>
</tr>
<tr>
<td>EC number</td>
<td>204-666-5</td>
</tr>
</tbody>
</table>

#### 1.2 Recommended and restricted uses of the substance or mixture

- **Recommended uses**: Industrial, personal care, lubricants, plasticizers, coating additives, pharmaceutical additives and textile additives.
- **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 Appendix A)**: None.
- **GHS physical hazard**: None.
- **GHS health hazard**: None.
- **GHS environmental hazard**: None.

#### 2.2 Label warnings of the substance or mixture

- **Signal word**: None.
- **Hazard statements**: None.
- **Precautionary statements**: None.
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Hazard symbol (pictogram) : None.

### 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>N-butyl octadecanote</td>
<td>Butyl stearate</td>
<td>100</td>
<td>123-95-5</td>
<td>None.</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>Not applicable.</td>
<td></td>
<td></td>
<td></td>
<td></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 develops, 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 occurs, seek immediate medical (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.</td>
</tr>
</tbody>
</table>

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

- **Symptoms after inhalation** : May experience dizziness and headache.
- **Symptoms after skin contact** : Mild irritation of the skin may occur.
- **Symptoms after eye contact** : Mild irritation of the eye tissue may occur.
- **Symptoms after ingestion** : Mild tingling of the tongue and mouth may occur. May cause mild nausea.

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

- **Treatment after inhalation** : If breathing is labored seek immediate medical attention.
- **Treatment after skin contact** : If skin irritation occurs seek immediate medical attention.
- **Treatment after eye contact** : If eye irritation occurs seek immediate ophthalmologist attention.
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Treatment after ingestion: If ingestion of a large quantity seek immediate poison control center.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Carbon dioxide, alcohol resistant foam and water spray.
Unsuitable media: None known.

5.2 Specific hazards arising from the substance or mixture

Direct fire hazard: Not flammable.
Indirect fire hazard: Exposure to temperature above the flash point (160°C).
Explosive hazard: Exposure to temperature above the flash point (160°C).
Reactivity: Reactivity with strong oxidizers.
Combustion products: Carbon dioxide and carbon monoxide.

5.3 Special protective equipment and precautions for fire-fighters

Protective equipment: Full protective clothing, self contained breathing apparatus.
Precautions: Material will burn, but not ignite readily.
Contact may cause irritation to eyes.
Fire may produce irritating and/or toxic gases.
Runoff from fire control may cause pollution.
Emergency response guide: Not a hazardous material.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: If substance is a mist stay upwind.
Protective equipment: Wear rubber gloves, rubber boots, face shield and chemical hazard suit. If material is a mist wear dust mask or self contained breathing apparatus.
Emergency procedures: Mark the spill area with hazard tape or cones. Contain the spill area with suitable absorbent. Keep away from streams, rivers and lakes. If substance is a mist, alert immediate neighborhood to close windows and doors. Contain and dissipate mist via spraying with water.

6.2 Environmental precautions

Precautions: Keep out of streams, rivers and lakes. Substance is regulated as oil under the Clean Water Act. Abide by all laws per this regulation.

6.3 Methods and materials for containment and cleanup

Methods: Use chemical absorbent pigs or manually spread chemical absorbent
onto spill area. After the substance 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 (17°C).
Handling equipment: Rubber hoses, aluminum, carbon steel or stainless steel (grade 304) lines. Stainless steel (grade 304) 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, aluminum, carbon steel, stainless steel (grade 304), rubber lined or epoxy lined tanks or drums. Graphite or rubber gaskets.
Incompatibilities: Oxidizers.

SECTION 8: Exposure controls/personal protection

8.1 Exposure controls

OSHA PEL: None.
ACGIH TLV: TWA 10 mg/m3.
NIOSH REL: None.

8.2 Appropriate engineering controls

Engineering controls: If mist 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. Dust mask if mist exists.

SECTION 9: Physical and chemical properties
9.1 Physical and chemical properties

Appearance: Clear colorless to light yellow liquid.
Odor: Slight fruity.
Odor threshold: No data available.
pH: No data available. Substance is not readily soluble in water.
Melting point: 17 - 21°C.
Boiling point: 343 - 350°C.
Flash point: 160°C, Closed Cup.
Evaporation rate: No data available.
Flammability: Not flammable.
Lower flammability limit: No data available.
Upper flammability limit: No data available.
Vapor pressure: 5.8X10^-6 mm Hg at 25°C.
Vapor density: 11.4 (air = 1).
Relative density: 0.854
Solubility: Soluble in ethanol and acetone.
Partition coefficient for n-octanol/water: Log Kow = 9.70.
Auto-ignition temperature: 355°C.
Decomposition temperature: No data available.
Viscosity: No data available.

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: Pressure, shock, static discharge or vibration does NOT result in a hazardous condition.
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.
Skin exposure: From mist or splashing.
11.2 Symptoms related to the physical, chemical and toxicological characteristics

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Not a likely route of exposure.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>From mist or splashing.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Labored breathing and irritation of the lungs may occur.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Mild skin irritation may occur.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Mild irritation of the mouth, tongue, esophagus and stomach may occur.</td>
</tr>
<tr>
<td>Skin primary irritation</td>
<td>No data available.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Mild eye irritation may occur.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Chronic effects are not known.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Chronic effects are not known.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Chronic effects are not known.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Chronic effects are not known.</td>
</tr>
</tbody>
</table>

11.4 Numerical measures of toxicity

<table>
<thead>
<tr>
<th>Measure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>Rat 32000 mg/kg.</td>
</tr>
<tr>
<td>Skin LD50</td>
<td>Rat &gt; 32000 mg/kg.</td>
</tr>
<tr>
<td>Ingestion LD50</td>
<td>No data available.</td>
</tr>
<tr>
<td>Inhalation LD50</td>
<td>No data available.</td>
</tr>
<tr>
<td>Skin primary irritation</td>
<td>No data available.</td>
</tr>
<tr>
<td>Eye primary irritation</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

11.5 Carcinogenicity

<table>
<thead>
<tr>
<th>Agency</th>
<th>Description</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>Toxicity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available.</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
12.1.1 Ecotoxicity aquatic

Fish LC50: No data available.
Daphnia EC50: No data available.
Rotifer EC50: No data available.
Algae EC50: No data available.

12.1.2 Ecotoxicity terrestrial

Ecotoxicity terrestrial: No data available.

12.2 Persistence and degradability

Water: No data available.
Soil: Koc = 39,000.
   : Immobile.
Air: 15 hour half life.

12.3 Bio-accumulative potential

Log Kow: 9.70.
   : This substance has a potential to bio-concentrate.

12.4 Mobility in soil

Surface tension: No data available.
Soil mobility: Koc = 39,000.
   : Immobile.

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: Mild pollutant to surface of water.

SECTION 13: Disposal considerations

13.1 Description of waste residues

Storage tank residues: Liquid residue from tank cleaning.
Empty package residues: Liquid residue remaining in emptied package container.
Transport trailer residues: Liquid residue from transport trailer cleaning.
Absorbent material: Solid absorbent containing substance 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.
Absorbent material: Dispose via an approved incineration facility.

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
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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 313 (40CFR372.65): Not listed.
CERCLA (40CFR302.4): Not listed.
California proposition 65: Not listed.
German WGK class: No data available.

15.1.2 Chemical inventories
TSCA USA: Listed.
AICS Australia: Listed.
DSL Canada: Listed.
EC Europe: Listed.
ECL Korea: Listed.
IECSC China: Unknown.
ENCS Japan: Listed.
NzloC New Zealand: Unknown.
PICCS Philippines: Listed.
SWISS Switzerland: Unknown.

15.2 Chemical safety assessment
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Safety assessment:
- Substance is approved as a direct food additive per 21CFR172.515.
- Substance is approved as a direct food additive per 21CFR173.340.
- Substance is approved as an indirect food additive per 21CFR175.105.
- Substance is approved as an indirect food additive per 21CFR175.300.
- Substance is approved as an indirect food additive per 21CFR175.320.
- Substance is approved as an indirect food additive per 21CFR176.200.
- Substance is approved as an indirect food additive per 21CFR177.1200.
- Substance is approved as an indirect food additive per 21CFR177.2260.
- Substance is approved as an indirect food additive per 21CFR177.2600.
- Substance is approved as an indirect food additive per 21CFR178.3900.

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></td>
</tr>
<tr>
<td>NFPA (USA)</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

16.2 Safety Data Sheet information

Revision date (MM/DD/YY) : 01/02/2015
Supersede date (MM/DD/YY) : 10/29/09

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.