**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

## 1.1 Product identifier

- **Product Name**: Butyl Stearate
- **Product Code(s)**: Butyl Stearate
- **Synonym(s)**: Fatty acids, C16-18, butyl esters
- **REACH Registration Number**: No data available

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

- **General use**: For use in industrial and laboratory applications
- **Uses advised against**: None known

## 1.3 Details of the supplier and of the safety data sheet

**Manufacturer/Distributor**
Allan Chemical Corporation
235 Margaret King Avenue
Ringwood, NJ 07456 USA
+1-973-962-4014

**Emergency telephone number**
Chem Tel
+1-813-248-0585
+1-800-255-3924

**SECTION 2 - HAZARDS IDENTIFICATION**

## 2.1 Classification of substance or mixture

- **Product definition**: Substance
- **Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation EC No. 1272/2008**
  - Not a dangerous substance according to OSHA or to European Union Legislation

## 2.2 Label Elements

- **Not classified as dangerous according to GHS**

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

- **None identified**

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1 Substances

<table>
<thead>
<tr>
<th>% by Weight</th>
<th>Ingredient</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>Index Number</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;98</td>
<td>Fatty acids, C16-18, Butyl esters</td>
<td>85408-76-0</td>
<td>287-039-9</td>
<td>---------------</td>
<td>-------------------</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence, require reporting in this section.

**SECTION 4 - FIRST AID MEASURES**

### 4.1 Description of first aid measures

- **Inhalation**: If exposure to product mist causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight fitting clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention.
- **Eyes**: Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after the first 2 minutes and continue rinsing. If irritation persists seek medical attention, preferably from an ophthalmologist.
- **Skin**: Flush skin with water while removing contaminated clothing. Wash affected area with soap and water followed by thorough rinsing. Wash contaminated clothing and shoes thoroughly before reuse. If irritation persists, seek medical attention.
- **Ingestion**: Rinse mouth thoroughly with water if the victim is conscious. Remove dentures, if present. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Obtain medical attention, especially if a large amount is swallowed.

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

- **Potential health symptoms and effects**
  - **Eyes**: Causes eye irritation.
  - **Skin**: Causes skin irritation with localized redness and itching.
  - **Inhalation**: May cause irritation of the respiratory tract. Considered a low hazard during normal industrial handling due to its low vapor pressure.
SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media
Suitable methods of extinction: Use extinguishing media such as water fog, water spray, carbon dioxide, dry chemical and foam.

Unsuitable methods of extinction: Do not use water jets or high pressure sprays as these may spread the fire.

5.2 Special hazards arising from the substance or mixture
May be combustible at high temperatures. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

5.3 Advice for firefighters
Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, water contaminated by this material should be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear all appropriate protective equipment designated in Section 8. Remove all sources of ignition. No smoking. Ventilate the area. Spills create a slip hazard.

6.2 Environmental precautions
Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up
Cover drains and contain spill. Cover with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect product and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Dispose of in accordance with federal, state and local regulations.

6.4 Reference to other sections
See Section 13 for additional waste treatment information.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling
Wear all appropriate personal protective equipment specified in Section 8. Do not get in eyes or on skin or clothing. No smoking. If normal use of this material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Wash contaminated clothing and shoes before reuse.

Advice on protection against fire and explosion
Material does not present a fire or explosion hazard.

7.2 Conditions for safe storage, including any incompatibilities
Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10.5), food and drink. Store away from direct sunlight or ultraviolet light. Transfer only to approved containers having correct labeling. Keep container tightly closed. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers may be hazardous when empty as they contain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

7.3 Specific end uses
Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters
Contains no substances with occupational exposure values.

8.2 Exposure controls
Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

Eye/face protection: Wear protective goggles or safety glasses with non-perforated side shields and a face shield. Refer to 29 CFR 1910.133, ANSI Z87.4 or Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of gloves must be greater than the intended use period.
**Other protective equipment:** Wear protective clothing. Wear protective boots, if the situation requires.

**Respiratory Protection:** None required with normal use. Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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).

**Environmental exposure controls:** Do not empty into drains.

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

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**SECTION 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>Clear, colorless liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Faint, fatty</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>No data available</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing/Melting Point, Range</td>
<td>20 °C (68 °F)</td>
</tr>
<tr>
<td>Initial Boiling Point</td>
<td>343 °C (649.4 °F)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>190 °C (374 °F)</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>355 °C (671 °F)</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower Explosive Limit (LEL)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper Explosive Limit (UEL)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.854 - 0.875 g/ml @ 20 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Negligible (0.29% @ 25 °C)</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>log Pow = &gt;6.0 predicted</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Volatiles by Volume @ 21 °C</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2 **Other data**

No data available

---

**SECTION 10 - STABILITY AND REACTIVITY**

10.1 **Reactivity**

No specific test data related to reactivity is available for this product.

10.2 **Chemical stability**

This product is stable under recommended storage conditions, handling and use.

10.3 **Possibility of hazardous reactions**

Hazardous polymerization does not occur.

10.4 **Conditions to avoid**

High temperatures; incompatible materials

10.5 **Incompatible materials**

Strong oxidizing agents, alkalis

10.6 **Hazardous decomposition products**

Thermal decomposition products include oxides of carbon.

---

**SECTION 11 - TOXICOLOGICAL INFORMATION**

11.1 **Information on toxicological effects**

- **Acute Oral Toxicity**
  - LD₅₀, rat: 32 g/kg

- **Acute inhalation toxicity**
  - No data available

- **Acute dermal toxicity**
  - No data available

- **Skin irritation/corrosion**
  - May cause skin irritation
### SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
Expected to be biodegradable.

12.3 Bioaccumulation potential
Not expected to bioaccumulate

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects
Additional ecological information
Do not allow material to run into surface waters, wastewater or soil. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Disposal of surplus and non-recyclable product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements. Avoid dispersal of spill material or runoff and contact with soil, waterways, drains and sewers.

RCRA P-Series: No listing
RCRA U-Series: No listing

### SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

NOT REGULATED FOR TRANSPORT

### SECTION 15 - REGULATORY INFORMATION

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

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is not classified as highly hazardous in accordance with OSHA 29 CFR 1910.1200.


EPA Federal Insecticide, Fungicide and Rodenticide Act: Butyl Stearate (CAS #557-95-5) is a registered Pesticide under the FIFRA, 40 CFR Part 150.

Toxic Substance Control Act (TSCA) Inventory: This substance is listed on the TSCA Inventory. It is not subject to TSCA 12(b) Export Notification.

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.4(f)(2) and Chemical Code Number

Not listed
This product contains no CERCLA reportable substances.

None of the chemicals in this product are listed on the NPRI.

This product does not contain any substances that listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b). This product does not contain any Class 1 Ozone depletors. This product does not contain any Class 2 Ozone depletors.

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

This product contains no chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

None of the chemicals in this product are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

This product does not contain any Class 1 Ozone depletors. This product does not contain any Class 2 Ozone depletors.

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

This material is not listed on any State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out.

**SECTION 16 - OTHER INFORMATION**

<table>
<thead>
<tr>
<th>Country</th>
<th>Inventory Name</th>
<th>Inventory Listing*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substance List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substance List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>Inventory of New and Existing Chemicals (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States</td>
<td>Toxic Substance Control Act (TSCA)</td>
<td>Yes</td>
</tr>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory of Chemicals (NZIoC)</td>
<td>Yes</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Yes - All components of this product are in compliance with the inventory requirements administered by the governing country.
No - One or more components of this product are not on the inventory or are exempt from listing.

### Hazardous Material Information System (HMIS)

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HMIS Hazard Rating Legend**
0 = Minimal 1 = Slight 2 = Moderate 3 = Serious
4 = Severe  * = Chronic Health Hazard

**NFPA Hazard Rating Legend**
0 = Insignificant 1 = Slight 2 = Moderate
3 = High 4 = Extreme

**Abbreviation Key**

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Services</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>EC</td>
<td>Half maximal effective concentration</td>
</tr>
</tbody>
</table>

**National Fire Protection Association (NFPA)**

Flammability

<table>
<thead>
<tr>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NFPA Hazard Rating Legend**
0 = Insignificant 1 = Slight 2 = Moderate
3 = High 4 = Extreme

**Special**
EMS Guide  Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA  Environmental Protection Agency
ErC₅₀  Reduction of Growth Rate
ERG  Emergency Response Guide Book
FDA  Food and Drug Administration
GHS  Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
HCS  Hazard Communication Standard
IARC  International Agency for Research on Cancer
IATA  International Air Transport Association
IC₅₀  Half Maximal Inhibitory Concentration
ICAO  International Civil Aviation Organization
IDLH  Immediately Dangerous to Life and Health
IMDG  International Maritime Dangerous Goods
IMO  International Maritime Organization
LC₅₀  50% Lethal Concentration
LD₅₀  50% Lethal Dose
LD₅₀  Lowest Lethal Dose
mppcf  Millions of Particles Per Cubic Foot
NA  North America
NIOSH  National Institute for Occupational Safety
NTP  National Toxicology Program
OSHA  Occupational Safety and Health Administration
PBT  Persistent, Bioaccumulating and Toxic
PEL  Permissible exposure limit
PMCC  Pensky-Martens Closed Cup
ppm  Parts Per Million
RCRA  Resource Conservation and Recovery Act
ppm  Parts Per Million
RCRA  Resource Conservation and Recovery Act
RID  Dangerous Goods by Rail
RQ  Reportable Quantity
TCC/Tag  Tagliabue Closed Cup
TLV  Threshold Limit Value
TSCA  Toxic Substance Control Act
TWA  Time-weighted Average
UN  United Nations
VOC  Volatile Organic Compounds
vPvB  Very Persistent and Very Bioaccumulating
WHMIS  Workplace Hazardous Materials Information System

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