SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
   - Product Name: Octyl Stearate
   - Product Code(s): Octyl Stearate
   - Synonym(s): Octadecanoic acid, octyl ester
   - 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

1.4 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
   - % by Weight | Ingredient | CAS Number | EC Number | Index Number | GHS Classification
     - >98 | Octyl Stearate | 109-36-4 | 203-666-2 | | |

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.

3.2 Mixtures
   - Not applicable

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. If symptoms persist, seek medical attention. If symptoms persist, 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: May cause mild eye irritation.
     - Skin: May cause mild, transient skin irritation. Considered a low hazard during normal industrial handling.
     - Inhalation: May cause irritation of the respiratory tract. Considered a low hazard during normal industrial handling.
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.

Explosion hazards: Not considered to be explosion hazard.

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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description/Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, yellow to amber colored liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild, characteristic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>396.695 g/mol</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>C₂₆H₅₂O₂</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing/Melting Point, Range</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial Boiling Point</td>
<td>438.7 °C (821.7 °F) @ 760 mm Hg</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>225.6 °C (438 °F)</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</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>6.79 x 10⁻⁸ @ 25 °C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.86 g/cc @ 20 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>No data available</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

Temperature extremes, incompatible materials, exposure to light

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: >2,000 mg/kg

Acute inhalation toxicity
No data available

Acute dermal toxicity
No data available

Skin irritation/corrosion
May cause skin irritation
Eye irritation/corrosion
May cause eye irritation

Sensitization
No data available

Genotoxicity in vitro
No data available

Mutagenicity
No data available

Specific organ toxicity - single exposure
No data available

Specific organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

### 11.2 Further information
No component of this product present at levels greater than or equal to the 0.1% threshold (de minimis) is identified as a probable, possible, potential or confirmed carcinogen by ACGIH, IARC, NTP or OSHA. No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates that it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

### SECTION 12 - ECOLOGICAL INFORMATION

#### 12.1 Toxicity
**Acute and prolonged toxicity to fish:** $\text{LC}_{50}$ - Brachydanio rerio (Zebrafish), 96 h: 10,000 mg/l

#### 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 spilt 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 Risk Management Planning Standard:** Chemicals in this product are not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

**EPA Federal Insecticide, Fungicide and Rodenticide Act:** This substance is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

**Toxic Substance Control Act (TSCA) Inventory:** This substance is exempt from listing on the TSCA Inventory as it is intended for use in applications regulated by the Food and Drug Administration in the United States. 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**
Comprehensive Response Compensation and Liability Act (CERCLA): This product contains no CERCLA reportable substances.

European Economic Community
None of the substances in this product are listed on the NPRI.

Canadian National Pollutant Release Inventory (NPRI):
WGK, Germany (Water danger/protection): nwg (non-hazardous to waters)

Clean Air Act (CAA)
This product does not contain any substances that listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

Clean Water Act (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.

U.S. State Regulations
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986
This product contains no chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

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

Canada
WHMIS Hazard Symbol and Classification: None allocated

Global Chemical Inventory Lists

<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>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substance List (NDSSL)</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>No</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.

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

SECTION 16 - OTHER INFORMATION

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>0</td>
<td>0</td>
<td>0</td>
<td>B</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

Abstraction Key
ACGIH American Conference of Governmental Industrial Hygienists
ADR Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)
CAS Chemical Abstract Services
CFR Code of Federal Regulations
DOT Department of Transportation
EC50 Half maximal effective concentration

National Fire Protection Association (NFPA)

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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