1. Identification

Product identifier: DREWMULSE 200K FLAKE

Other means of identification
- **Product code**: 2814
- **Recommended use**: Food additive
- **Recommended restrictions**: None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer**
- **Company name**: Stepan Specialty Products, LLC
- **Address**: 100 West Hunter Avenue, Maywood, NJ 07607, United States
- **Telephone**: General (U.S.) 1-847-446-7500
- **E-mail**: Not available.
- **Emergency phone number**
  - **Medical**: 1-800-228-5635
  - **Chemtrec**: 1-800-424-9300
  - **Chemtrec Int’l**: +1 703-527-3887

2. Hazard(s) identification

**Physical hazards**: Not classified.

**Health hazards**
- **Serious eye damage/eye irritation**: Category 2B

**Environmental hazards**
- **Hazardous to the aquatic environment, long-term hazard**: Category 3

**OSHA defined hazards**: Not classified.

**Label elements**
- **Hazard symbol**: None.
- **Signal word**: Warning
- **Hazard statement**: Causes eye irritation. Harmful to aquatic life with long lasting effects.

**Precautionary statement**
- **Prevention**: Wash thoroughly after handling. Avoid release to the environment.
- **Response**: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- **Storage**: Store away from incompatible materials.
- **Disposal**: Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)**: None known.

3. Composition/information on ingredients

**Mixtures**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glyceryl Monostearate</td>
<td></td>
<td>123-94-4</td>
<td>&gt;40</td>
</tr>
</tbody>
</table>

4. First-aid measures

**Inhalation**: Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**: Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact**: Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion**: Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.
### General information
Direct contact with eyes may cause temporary irritation. Treat symptomatically.
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

**Suitable extinguishing media**
- Water fog
- Foam
- Dry chemical powder
- Carbon dioxide (CO2)

**Unsuitable extinguishing media**
Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**
During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Move containers from fire area if you can do so without risk.
Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**
No unusual fire or explosion hazards noted.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**
Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions**
Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

**Ground/bond container and receiving equipment. Observe good industrial hygiene practices.**
Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Guard against dust accumulation of this material. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

**Precautions for safe handling**
- Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**
- If contact is likely, safety glasses with side shields are recommended.
- For prolonged or repeated skin contact use suitable protective gloves.
- Wear suitable protective clothing. Use impervious gloves.
- In case of insufficient ventilation, wear suitable respiratory equipment.
- Wear appropriate thermal protective clothing, when necessary.
- Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

**Appearance**
Physical state: Solid.
Form: Solid.
Color: Not available.
Odor: Not available.
Odor threshold: Not available.
pH: Not available.
Melting point/freezing point: 140 °F (60 °C)
Initial boiling point and boiling range: Not available.
Flash point: > 201.0 °F (> 93.9 °C)
Evaporation rate: Estimated slower than ethyl ether
Flammability (solid, gas): Not available.
Upper/lower flammability or explosive limits:
Flammability limit - lower (%): Not available.
Flammability limit - upper (%): Not available.
Explosive limit - lower (%): Not available.
Explosive limit - upper (%): Not available.
Vapor pressure: Not applicable
Vapor density: Not applicable
Relative density: Not available.
Solubility(ies):
Solubility (water): Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.

10. Stability and reactivity
Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials: Strong oxidizing agents. This product may react with strong alkalies.
Hazardous decomposition products: No hazardous decomposition products are known.

11. Toxicological information
Information on likely routes of exposure:
Inhalation: No adverse effects due to inhalation are expected.
Skin contact: No adverse effects due to skin contact are expected.
Eye contact: Direct contact with eyes may cause temporary irritation.
Ingestion: Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics: Direct contact with eyes may cause temporary irritation.

Information on toxicological effects:
Acute toxicity
<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DREWMULSE 200K FLAKE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prolonged skin contact</td>
<td></td>
<td></td>
</tr>
<tr>
<td>irritation</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitization</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>This product is not expected to cause skin sensitization.</td>
<td></td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No data available to indicate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>product or any components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>present at greater than 0.1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>are mutagenic or genotoxic.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IARC Monographs. Overall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaluation of Carcinogenicity</td>
<td>Not listed.</td>
<td></td>
</tr>
<tr>
<td>US. National Toxology Program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(NTP) Report on Carcinogens</td>
<td>Not listed.</td>
<td></td>
</tr>
<tr>
<td>US. OSHA Specifically Regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Reproductive toxicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not applicable.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>**Specific target organ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>toxicity - single exposure</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>**Specific target organ</td>
<td></td>
<td></td>
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<tr>
<td>toxicity - repeated exposure</td>
<td>Not applicable.</td>
<td></td>
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<tr>
<td><strong>Aspiration hazard</strong></td>
<td></td>
<td>Not applicable.</td>
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</tbody>
</table>

### 12. Ecological information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DREWMULSE 200K FLAKE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Persistence and degradability</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Readily biodegradable.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No data available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mobility in soil</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No data available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Other adverse effects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No other adverse environmental</td>
<td></td>
<td></td>
</tr>
<tr>
<td>effects (e.g. ozone depletion,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>photochemical ozone creation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>potential, endocrine disruption,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>global warming potential) are</td>
<td></td>
<td></td>
</tr>
<tr>
<td>expected from this component.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 13. Disposal considerations

**Disposal instructions**
Dispose in accordance with all applicable regulations.

**Hazardous waste code**
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products**
Dispose of in accordance with local regulations.

**Contaminated packaging**
Not available.

### 14. Transport information

**DOT**
Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not available.

15. Regulatory information

US federal regulations
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

SARA 304 Emergency release notification
Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.

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

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

SARA 313 (TRI reporting)
Not regulated.

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

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations
US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. Massachusetts RTK - Substance List
Not regulated.

US. Pennsylvania Worker and Community Right-to-Know Law
Not listed.

US. Rhode Island RTK
Not regulated.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDLS)</td>
<td>No</td>
</tr>
<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>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Country(s) or region</td>
<td>Inventory name</td>
<td>On inventory (yes/no)*</td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>------------------------</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 (NZIoC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A “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).

16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Issue date</th>
<th>10-29-2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>02-27-2017</td>
</tr>
<tr>
<td>Version #</td>
<td>02</td>
</tr>
</tbody>
</table>

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Revision information

Hazard(s) identification: Prevention
Physical & Chemical Properties: Multiple Properties
Regulatory information: California Prop 65
Other information, including date of preparation or last revision: Disclaimer
HazReg Data: North America
GHS: Classification