Safety Data Sheet

Section 1: Chemical Identification

Chemical Name: Octylglucoside, ultra pure
Alternative Name: Octylglucoside ultra pure; n-Octyl-β-D- glucopyranoside; n-Octyl-beta-D-Glc
Catalog Number: O-110-5; O-110-10; O-110-25
Recommended use: Detergent for the solubilization and isolation of membrane proteins. This product is not for use in humans. It is intended for research purposes only.

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Section 2: Hazardous Information

GHS Classification
Skin Irritant (Category 3)
Eye irritant (Category 2B)
Specific target organ toxicity – single exposure (Category 3)

GHS Label Elements, including Precautionary statements

WARNING

Hazard Statements:
- H316: Causes mild skin irritation
- H320: Causes eye irritation
- H335: May cause respiratory irritation

Precautionary Statements:
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P264: Wash hands thoroughly after handling  
P271: Use only outdoors or in a well-ventilated area  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
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  
P405: Store locked up  
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

**OSHA Hazards**  
No known hazards.

**Potential Health Effects**  
**Eye:** May cause eye irritation.  
**Skin:** May be harmful if absorbed through skin, may cause irritation.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**HMIS Classification**  
Health hazard: 0  
Flammability: 0  
Physical hazards: 0

**NFPA Rating**  
Health Hazard: 0  
Fire: 0  
Reactivity Hazard: 0

**Section 3: Composition/Information on Ingredients**

**Identity:** Octylglucoside, ultra pure  
**Synonyms:** Octylglucoside ultra pure; n-Octyl-β-D-glucopyranoside; n-Octyl-beta-D-Glc  
**CAS number:** 29836-26-8  
**Molecular Formula:** C_{14}H_{28}O_{6}  
**Molecular Weight:** 292.38 g/mol

**Section 4: First Aid Measures**

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.  
**Skin:** In case of contact, wash skin with soap and water. Call a physician.  
**Eye:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Call a physician.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Section 5: Fire Fighting Measures

Suitable extinguishing media: Water, carbon dioxide, dry chemical powder or foam.

Specific hazards arising from the chemical: No known hazards.

Special protective actions for fire-fighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Avoid breathing vapor, mist or gas. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Environmental precautions: Do not let product enter drain.

Methods and materials for containment and cleaning up: Sweep up and shovel without creating dust. Keep in suitable closed containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling: Avoid ingestion and inhalation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed when not in use. Store in deep freeze (-20°C). Store dry. Protect from humidity.

Section 8: Exposure Controls / Personal Protection

Control parameters: Contains no substances with occupational exposure limit values.

Appropriate engineering controls: Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment (PPE)

Eye/Face Protection: Avoid contact with eyes, wear safety goggles or face shield tested under government standards.
**Skin Protection:** Wear compatible chemical-resistant gloves to prevent skin exposure. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Wash and dry hands.

**Respiratory Protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Other Protective Clothing or Equipment:** Maintain general industrial hygiene practice. Wash skin thoroughly and remove contaminated clothing after handling.

### Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to off white crystalline powder</td>
</tr>
<tr>
<td>Odour</td>
<td>No characteristic odor</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
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<tr>
<td>Melting Point</td>
<td>Not available</td>
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<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
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<tr>
<td>Flash Point</td>
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</tr>
<tr>
<td>Evaporation Rate</td>
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</tr>
<tr>
<td>Flammability</td>
<td>Not available</td>
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<tr>
<td>Lower Explosion Limit</td>
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<tr>
<td>Upper Explosion Limit</td>
<td>Not available</td>
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<tr>
<td>Vapour Pressure</td>
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</tr>
<tr>
<td>Vapour Density</td>
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<tr>
<td>Relative Density</td>
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</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
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</tr>
<tr>
<td>n-octanol/water</td>
<td></td>
</tr>
<tr>
<td>Auto-Ignition</td>
<td>Not available</td>
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<tr>
<td>Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
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</tbody>
</table>

### Section 10: Stability and Reactivity Data

**Reactivity:** Not available.

**Chemical stability:** Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:** Not available.

**Conditions to avoid:** Incompatible materials, light.
**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions - Carbon oxides.

**Section 11: Toxicological Information**

**Acute toxicity:** None detected

**Skin corrosion/irritation:** Not available.

**Respiratory or skin sensitization:** Not available.

**Germ cell mutagenicity:** Not available.

**Carcinogenicity:**
- **IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- **NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- **OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** Not available.

**STOT-single exposure:** Not available.

**STOT-repeated exposure:** Not available.

**Aspiration hazard:** Not available.

**Likely routes of exposure:** Respiratory organs, mouth, skin, and eyes.

**Symptoms of exposure:** Not available.
Section 12: Ecological Information

Toxicity:
Not available.

Persistence and degradability:
Not available.

Bioaccumulative potential:
Not available.

Mobility in soil:
Not available.

Other adverse effects:
Not available.

Section 13: Disposal Considerations

Disposal should be handled by an approved waste disposal facility.

Section 14: Transport Information

US Department of Transportation (DOT)
This material is considered to be non-hazardous for transport.

International Maritime Dangerous Goods (IMDG)
This material is considered to be non-hazardous for transport.

International Air Transport Association (IATA)
This material is considered to be non-hazardous for transport.

Section 15: Regulatory Information

OSHA Hazards:
No known hazard.

SARA 302 Components:
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:
No SARA Hazard
Massachusetts Right To Know Components:
No Components Listed

Pennsylvania Right To Know Components:  CAS-No.
1-O-Octyl-β-D-glucopyranoside  29836-26-8

New Jersey Right To Know Components:  CAS-No.
1-O-Octyl-β-D-glucopyranoside  29836-26-8

California Prop. 65 Components:
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

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