SAFETY DATA SHEET

Section 1: Product Identification

Product name: SICKLEDEX® Solubility Powder
Synonyms: N/A
CAS Number: Mixture, N/A
Product Use: Qualitative solubility test kit used to detect the presence of sickling hemoglobins in human blood or sickle cell control material.
Restrictions: Refer to Instructions for Use (IFU) for additional precautions and limitations.

Manufacturer: Streck
Address: 7002 S. 109 St, La Vista, NE, 68128
24hr (Chem.-Tel): 1-800-255-3924

Section 2: Hazards Identification

Classification: Physical Hazards:
 - Self-heating substances and mixtures, category 1

Health Hazards:
 - Acute toxicity:
   - Oral, category 4
 - Serious eye damage/ irritation, category 2A
 - Specific target organ toxicity – single exposure, category 3, respiratory system
 - Acute aquatic toxicity, category 2
 - Chronic aquatic toxicity, category 2

Label Elements: Container labeling is not required on medical devices per 29CFR1910.1200(b)(5).
Symbol: Flame, exclamation point, dangerous for the environment
Signal Word: Danger

Hazard Statements:
 - Self-heating: may catch fire
 - Harmful if swallowed
 - Causes serious eye irritation
 - May cause respiratory irritation
 - Toxic to aquatic life with long lasting effects

Precautionary Statements:
 - Keep cool and protect from sunlight. Store in a well-ventilated place away from other materials and keep container tightly closed. Keep away from heat, sparks, and open flame. Maintain air gap between stacks/ pallets. Refer to sections 5 and 7 for additional information.
 - Do not eat, drink or smoke when using the product. Wear protective gloves/ protective clothing/ eye protection/ face protection. Avoid breathing dust/ fume/ gas/ vapors/ spray.
 - Use only in a well-ventilated area. Wash skin thoroughly after handling.

IF SWALLOWED: Rinse mouth and call a POISON CENTER or doctor/ physician if you feel unwell.
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.

IF INHALED: Remove victim to fresh air and keep at a rest in a position comfortable for breathing.

Avoid release into the environment, collect spillage, and dispose of contents/container to an approved waste disposal plant.

Other hazards:
- Contact with water or acid liberates toxic gas.
- Contact with water creates exothermic reaction.

### Section 3: Composition

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Component</th>
<th>Synonyms</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7775-14-6</td>
<td>Sodium Hydrosulfite</td>
<td>Sodium dithionite</td>
<td>84</td>
</tr>
<tr>
<td>8047-15-2</td>
<td>Saponin</td>
<td>N/A</td>
<td>&lt; 2</td>
</tr>
</tbody>
</table>

### Section 4: First Aid Measures

List specific first aid measures for:
1. **Skin Contact** – In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
2. **Eye contact** – In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
3. **Ingestion** – If swallowed, wash out mouth with water; provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician.
4. **Inhalation** - If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** No data available

In case of accident, or if you feel unwell, seek medical advice immediately (show the label where possible).

**Indication of immediate medical attention and special treatment needed:** No data available

### Section 5: Fire Fighting Measures

<table>
<thead>
<tr>
<th>Suitable Extinguishing media</th>
<th>Special hazards arising from the chemical</th>
<th>Special protective equipment and precautions for fire-fighters.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry chemical powder.</td>
<td>Addition of small amounts of water or temperatures above 100°C may cause self-ignition. May decompose on exposure to air and moisture. Dust potential: this material, like most materials in powder form, is capable of creating a dust explosion.</td>
<td>Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Flammable solid. Emits toxic fumes under fire conditions.</td>
</tr>
</tbody>
</table>
**Section 6: Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures:** Avoid dust formation. Avoid breathing dust, vapors, mist or gas.

**PPE needed for clean up:** Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. See section 8 for additional information.

**Methods and materials for containment and cleaning up**

**Spill clean-up procedure:** Evacuate area. Shut off all sources of ignition. Cover with dry-lime, sand, or soda ash. Place in suitable, covered containers using non-sparking tools and transport outdoors. Dispose of according to local regulations. Do not flush with water.

**Follow-up guidelines:** Ventilate area and wash spill site after material pickup is complete.

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**Section 7: Handling and Storage**

<table>
<thead>
<tr>
<th>Handling</th>
<th>User exposure: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid prolonged or repeated exposure. Handle under nitrogen. Avoid formation of dust and aerosols.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>Keep container closed. Keep away from heat, sparks, and open flame. Store in a cool dry place. Handle and store under nitrogen.</td>
</tr>
<tr>
<td>Temp</td>
<td>As indicated on packaging</td>
</tr>
<tr>
<td>Warnings</td>
<td>Air sensitive. Heat and moisture sensitive.</td>
</tr>
</tbody>
</table>

**Section 8: Exposure Control and Personal Protection**

**Control parameters:** Does not contain substances with occupational exposure limit values.

**Engineering control recommendations:** Handle in accordance with good industrial hygiene and safety practices. Limit or avoid generation of dust while transferring contents from vial. Wash hands thoroughly after handling.

**Individual protection measures:**

**PPE:**
- **Respiratory:** Respiratory protection is not required.
- **Skin:** Nitrile rubber gloves.
- **Eye/face:** Face shield and/or safety goggles.

**Additional suggestions:** Wash thoroughly after handling.

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**Section 9: Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Solid, powder</th>
<th>Color</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>No data available</td>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
<td>Melting/ Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
<td>Boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available</td>
<td>Upper/lower flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No data available</td>
<td>Partition coefficient: n-octano/ water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Self-heating, category 1</td>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 10: Stability and Reactivity

1. **Reactivity**: No data available.
2. **Chemical Stability**: Stable under recommended storage conditions.
3. **Possibility of hazardous reactions**: No data available.
4. **Conditions to avoid**: May decompose on exposure to air and moisture (moisture sensitive). Do not allow water to enter container because of violent reaction. Avoid contact with air, moisture, and heat.
5. **Incompatible materials**: Strong oxidizing agents and acids.
6. **Hazardous decomposition products**: Sulfur oxides, Sodium/sodium oxides.

Section 11: Toxicological Properties

<table>
<thead>
<tr>
<th>Toxicological effects:</th>
<th>Acute Toxicity, Eye irritation. Specific target organ toxicity-respiratory system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route(s) of exposure:</td>
<td>Skin, eye, respiratory, digestive</td>
</tr>
<tr>
<td>Symptoms:</td>
<td>Irritation at site of exposure (eye, respiratory.)</td>
</tr>
<tr>
<td>Delayed effects:</td>
<td>No data available</td>
</tr>
<tr>
<td>Immediate effects:</td>
<td>No data available</td>
</tr>
<tr>
<td>Chronic effects:</td>
<td>Short exposure: No data available</td>
</tr>
<tr>
<td></td>
<td>Long exposure: No data available</td>
</tr>
<tr>
<td>Exposure limits:</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td>Not listed as carcinogens or suspect carcinogens</td>
</tr>
<tr>
<td>Measures of Toxicity:</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Section 12: Ecological Information

| Ecotoxicity: | Acute aquatic effects: LC50 Fish: *Leuciscus idus*: LC50 = 10.0-100.0 mg/L/96 Hr., EC50 Daphnia: *Daphnia magna*: LC50 = 10.0-100.0 mg/L/48 HR., IC50 Algae: LC50 = >100 mg/L/72 Hr. |

Section 13: Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an after burner and scrubber, but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Section 14: Transport Information

**DOT:**
- **Proper Shipping Name**: Sodium dithionite (or) Sodium hydrosulfite
- **Hazard Class**: 4.2
- **Identification Number**: UN1384
- **Packing Group**: II
- **Hazard Label**: Spontaneously combustible

**IATA:**
- **Proper Shipping Name**: Sodium dithionite (or) Sodium hydrosulfite
- **Hazard Class**: 4.2
- **IATA UN Number**: UN1384
- **Packing Group**: II
- **Hazard Label**: Spontaneously combustible
Section 15: Regulatory Information

WHMIS (Canada)  
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.  
DSL: Yes  
NDSL: No

International Regulations  
EU Directive classification:  
Symbol of Danger: Xn  
R: 7-22-31  
S: 7/8-26-28-43

NFPA Ratings:  
Health 2, Fire 1, Reactivity 2

Section 16: Other

This product is intended for use as supplied.

To the best of our knowledge, the information contained herein is accurate. However, Streck assumes no liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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