Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Sodium propionate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>SPECTRUM LABORATORY PRODUCTS INC.</td>
</tr>
<tr>
<td>14422 S. SAN PEDRO STREET</td>
<td>GARDENA, CA 90248</td>
</tr>
<tr>
<td>Commercial Name(s)</td>
<td>Impedex, Mycoban, Napropion</td>
</tr>
<tr>
<td>Synonym</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Propanoic Acid, sodium salt</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>C3-H5-Na-O2 or C3-H5-Na-O2.xH2O</td>
</tr>
<tr>
<td>Supplier</td>
<td>SPECTRUM LABORATORY PRODUCTS INC.</td>
</tr>
<tr>
<td></td>
<td>14422 S. SAN PEDRO STREET</td>
</tr>
<tr>
<td></td>
<td>GARDENA, CA 90248</td>
</tr>
</tbody>
</table>

Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium propionate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CAS #</td>
</tr>
<tr>
<td></td>
<td>TWA (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>STEL (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>CEIL (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>% by Weight</td>
</tr>
<tr>
<td>1) sodium propionate</td>
<td>137-40-6; 6700-17-0</td>
</tr>
<tr>
<td></td>
<td>(CAS no. for hydrate)</td>
</tr>
<tr>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

Section 3. Hazards Identification

Potential Acute Health Effects
Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects
CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.
### Section 4. First Aid Measures

<table>
<thead>
<tr>
<th>Condition</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye Contact</strong></td>
<td>Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.</td>
</tr>
<tr>
<td><strong>Skin Contact</strong></td>
<td>In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.</td>
</tr>
<tr>
<td><strong>Serious Skin Contact</strong></td>
<td>Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</td>
</tr>
<tr>
<td><strong>Serious Inhalation</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.</td>
</tr>
<tr>
<td><strong>Serious Ingestion</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section 5. Fire and Explosion Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flammability of the Product</strong></td>
<td>May be combustible at high temperature.</td>
</tr>
<tr>
<td><strong>Auto-Ignition Temperature</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flash Points</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammable Limits</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Products of Combustion</strong></td>
<td>These products are carbon oxides (CO, CO2). Some metallic oxides.</td>
</tr>
<tr>
<td><strong>Fire Hazards in Presence of Various Substances</strong></td>
<td>Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.</td>
</tr>
<tr>
<td><strong>Explosion Hazards in Presence of Various Substances</strong></td>
<td>Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.</td>
</tr>
<tr>
<td><strong>Fire Fighting Media and Instructions</strong></td>
<td><strong>SMALL FIRE</strong>: Use DRY chemical powder. <strong>LARGE FIRE</strong>: Use water spray, fog or foam. Do not use water jet.</td>
</tr>
<tr>
<td><strong>Special Remarks on Fire Hazards</strong></td>
<td>When heated to decomposition it emits acrid fumes and disodium oxide.</td>
</tr>
<tr>
<td><strong>Special Remarks on Explosion Hazards</strong></td>
<td>Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.</td>
</tr>
</tbody>
</table>

### Section 6. Accidental Release Measures

<table>
<thead>
<tr>
<th>Condition</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Small Spill</strong></td>
<td>Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.</td>
</tr>
<tr>
<td><strong>Large Spill</strong></td>
<td>Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.</td>
</tr>
</tbody>
</table>
Section 7. Handling and Storage

Precautions
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage
Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic

Section 8. Exposure Controls/Personal Protection

Engineering Controls
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection
Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits
Not available.

Section 9. Physical and Chemical Properties

Physical state and appearance
Solid. (crystalline powder. Granular solid. Crystals solid.)

Molecular Weight
96.07g/mole

pH (1% soln/water)
Not available.

Boiling Point
285.5°C (545.9°F)

Critical Temperature
Not available.

Specific Gravity
Not applicable.

Vapor Pressure
Not available.

Vapor Density
Not available.

Volatility
Not available.

Odor Threshold
Not available.

Water/Oil Dist. Coeff.
Not available.

Ionicity (in Water)
Not available.

Dispersion Properties
See solubility in water.

Solubility
Easily soluble in cold water, hot water. 1 gram dissolves in about 1 ml water, in about 0.65 ml boiling water, in about 24 ml alcohol at 25 deg. C.

Section 10. Stability and Reactivity Data

Stability
The product is stable.

Instability Temperature
Not available.

Conditions of Instability
Excess heat, dust generation, incompatible materials, moisture

Incompatibility with various substances
Reactive with oxidizing agents.

Corrosivity
Non-corrosive in presence of glass.

Special Remarks on Reactivity
Hygroscopic; keep container tightly closed.

Continued on Next Page
**Section 11. Toxicological Information**

**Routes of Entry**
Absorbed through skin. Inhalation. Ingestion.

**Toxicity to Animals**
- Acute oral toxicity (LD50): 6332 mg/kg [Mouse].
- Acute dermal toxicity (LD50): 1640 mg/kg [Rabbit].

**Chronic Effects on Humans**
Not available.

**Other Toxic Effects on Humans**
Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

**Special Remarks for Toxicity to Animals**
Not available.

**Special Remarks for Chronic Effects on Humans**
Not available.

**Special Remarks for Toxic Effects on Humans**
- Acute Potential Health Effects:
  - Skin: May cause skin irritation. May be harmful if absorbed through skin.
  - Eyes: May cause eye irritation.
  - Inhalation: May cause respiratory tract irritation.
  - Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting and diarrhea. May affect behavior/central nervous system (excitement, somnolence), and respiration (dyspnea).
- Chronic Potential Health Effects:
  - Ingestion: Prolonged or repeated ingestion may affect the blood.

**Section 12. Ecological Information**

**Ecotoxicity**
Not available.

**BOD5 and COD**
Not available.

**Products of Biodegradation**
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation**
The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation**
Not available.

**Section 13. Disposal Considerations**

**Waste Disposal**
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Section 14. Transport Information**

**DOT Classification**
Not a DOT controlled material (United States).

**Identification**
Not applicable.

**Special Provisions for Transport**
Not applicable.

**DOT (Pictograms)**

*Continued on Next Page*
### Section 15. Other Regulatory Information and Pictograms

#### Federal and State Regulations

- TSCA 8(b) inventory: Sodium propionate

#### California Proposition 65

- Warning: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.
- Warning: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

#### Other Regulations

- EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 205-290-4).
- Canada: Listed on Canadian Domestic Substance List (DSL).
- China: Listed on National Inventory.
- Japan: Listed on National Inventory (ENCS).
- Korea: Listed on National Inventory (KECI).
- Philippines: Listed on National Inventory (PICCS).
- Australia: Listed on AICS.

#### Other Classifications

- WHMIS (Canada): Not controlled under WHMIS (Canada).
- DSCL (EEC): R21- Harmful in contact with skin.
  - S28- After contact with skin, wash immediately with plenty of water.
  - S36/37- Wear suitable protective clothing and gloves.
  - S46- If swallowed, seek medical advice immediately and show this container or label.
- National Fire Protection Association (U.S.A.):
  - Health Hazard: 2
  - Fire Hazard: 1
  - Reactivity: 0
  - Personal Protection: E
  - Flammability: 1
  - Reactivity: 0
  - Specific hazard

#### WHMIS (Canada) (Pictograms)

- ![WHMIS (Canada) Pictogram]

#### DSCL (Europe) (Pictograms)

- ![DSCL (Europe) Pictogram]

#### TDG (Canada) (Pictograms)

- ![TDG (Canada) Pictogram]

#### ADR (Europe) (Pictograms)

- ![ADR (Europe) Pictogram]

#### Protective Equipment

- Gloves.
- Lab coat.
Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.

**Section 16. Other Information**

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>S4370</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Special Considerations</td>
<td>Major Uses: Mold preventative in bread, bakery products, cheese foods, cheese spreads, animal feeds, smoking and chewing tobacco</td>
</tr>
</tbody>
</table>


**Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user’s responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.