Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/ Trade Name</th>
<th>2-Amino-2-methyl-1-propanol</th>
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<tr>
<td>Catalog Number(s)</td>
<td>A2329, AM156</td>
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<td>CAS#</td>
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<td>UA5950000</td>
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<td>TS CA 8(b) inventory:</td>
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<td>2-Amino-2-methyl-1-propanol</td>
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<tr>
<td>Manufacturer</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>
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<tr>
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<tr>
<td>Synonym</td>
<td>2-Amino-2-methylpropan-1-ol</td>
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<td>2-Amino-2-methylpropanol</td>
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<tr>
<td></td>
<td>2-Aminodimethylethanol</td>
</tr>
<tr>
<td></td>
<td>Amp-95</td>
</tr>
<tr>
<td></td>
<td>beta-Aminoisobutanol</td>
</tr>
<tr>
<td></td>
<td>Isobutanol-2-amine</td>
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<tr>
<td></td>
<td>Isobutanolamine</td>
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<tr>
<td>Chemical Name</td>
<td>1-Propanol, 2-amino-2-methyl-</td>
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<tr>
<td>Chemical Family</td>
<td>Primary aliphatic amine. (Alkali,)</td>
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<tr>
<td>Chemical Formula</td>
<td>CH3C(CH3)NH2CH2OH</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>
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Section 2. Composition and Information on Ingredients

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<tr>
<th>Name</th>
<th>Exposure Limits</th>
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<tr>
<td>1) {2-}Amino-2-methyl-1-propanol</td>
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Toxicological Data on Ingredients

<table>
<thead>
<tr>
<th>2-Amino-2-methyl-1-propanol:</th>
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<tr>
<td>ORAL (LD50):</td>
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<tr>
<td>Acute: 2900 mg/kg [Rat].</td>
</tr>
<tr>
<td>2150 mg/kg [Mouse].</td>
</tr>
<tr>
<td>DERMAL (LD50):</td>
</tr>
<tr>
<td>Acute: &gt;2000 mg/kg [Rabbit].</td>
</tr>
</tbody>
</table>

Section 3. Hazards Identification

Potential Acute Health Effects

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Slightly hazardous in case of skin contact (permeator), of inhalation. Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

Continued on Next Page
**Potential Chronic Health Effects**

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to lungs, the nervous system, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

### Section 4. First Aid Measures

| Eye Contact | Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention. Finish by rinsing thoroughly with running water to avoid a possible infection. |
| Skin Contact | In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. |
| Serious Skin Contact | Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention. |
| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Serious Inhalation | Not available. |
| Ingestion | 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. |
| Serious Ingestion | Not available. |

### Section 5. Fire and Explosion Data

| Flammability of the Product | Combustible. |
| Auto-Ignition Temperature | Not available. |
| Flash Points | CLOSED CUP: 67°C (152.6°F) - 81°C (178°F). |
| Flammable Limits | Not available. |
| Products of Combustion | These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...). |
| Fire Hazards in Presence of Various Substances | Flammable in presence of open flames and sparks, of heat. |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of mechanical impact: Not available. |
| | Risks of explosion of the product in presence of static discharge: Not available. |
| Fire Fighting Media and Instructions | SMALL FIRE: Use DRY chemical powder. |
| | LARGE FIRE: Use water spray, fog or foam. Do not use water jet. |
| Special Remarks on Fire Hazards | COMBUSTIBLE. |
| Special Remarks on Explosion Hazards | Not available. |
Section 6. Accidental Release Measures

Small Spill
Absorb with an inert material and put the spilled material in an appropriate waste disposal. If necessary: **Neutralize the residue with a dilute solution of acetic acid.**

Large Spill
Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. **Neutralize the residue with a dilute solution of acetic acid.** Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Precautions
Keep container dry. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Never add water to this product. Wear suitable protective clothing. 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, acids.

Storage
Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8. Exposure Controls/Personal Protection

Engineering Controls
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Personal Protection in Case of a Large Spill
Splash goggles. Full suit. Boots. Gloves. 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
Liquid. (Viscous liquid.)

Molecular Weight
89.14 g/mole

pH (1% soln/water)
11.3 [Basic.]

Boiling Point
165°C (329°F)

Melting Point
-2.222°C (28°F)

Critical Temperature
Not available.

Specific Gravity
0.934 - 0.942 (Water = 1)

Vapor Pressure
0 kPa (@ 20°C)

Vapor Density
3 (Air = 1)

Volatility
Not available.

Odor Threshold
Not available.

Water/Oil Dist. Coeff.
The product is more soluble in water; log(oil/water) = -0.6

Ionicity (in Water)
Not available.

Dispersion Properties
See solubility in water.

Solubility
Soluble in cold water.

Continued on Next Page
Section 10. Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>The product is stable.</th>
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<tbody>
<tr>
<td>Instability Temperature</td>
<td>Not available.</td>
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<tr>
<td>Conditions of Instability</td>
<td>Heat, ignition sources, incompatible materials</td>
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<tr>
<td>Incompatibility with various substances</td>
<td>Reactive with oxidizing agents, acids.</td>
</tr>
<tr>
<td>Corrosivity</td>
<td>Corrosive in presence of aluminum, of zinc, of copper.</td>
</tr>
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</table>

Special Remarks on Reactivity
- Avoid contact with metals such as: Zinc, Copper, Brass, Copper alloys, galvinized metals.
- Avoid contact with halogenated hydrocarbons

Special Remarks on Corrosivity
- Corrosive effect on brass.

Polymerization
- Will not occur.

Section 11. Toxicological Information

Routes of Entry
- Absorbed through skin. Eye contact.

Toxicity to Animals
- Acute oral toxicity (LD50): 2150 mg/kg [Mouse].
- Acute dermal toxicity (LD50): >2000 mg/kg [Rabbit].

Chronic Effects on Humans
- Causes damage to the following organs: lungs, the nervous system, mucous membranes.

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

Special Remarks on Toxicity to Animals
- Not available.

Special Remarks on Chronic Effects on Humans
- Not available.

Special Remarks on other Toxic Effects on Humans
- Potential Health Effects:
  - Skin: Causes moderate to severe irritation. Prolonged contact may cause skin burns. Prolonged skin contact is unlikely to result in absorption of harmful amounts.
  - Eyes: Causes eye irritation and possible burns. May cause severe irritation with corneal injury which may result in permanent impairment of vision.
  - Inhalation: At room temperature, exposure vapor is minimal due to low volatility. Vapor from heated vapor or mist may cause respiratory tract irritation. Prolonged or repeated inhalation may cause respiratory depression, weight anorexia, weight loss, and may affect the heart.
  - Ingestion: Swallowing large amounts may cause irritation or burns of the mouth, throat and gastrointestinal (digestive) tract. It may also affect behavior/central nervous system (somnolence, coma), liver, and respiration (respiratory stimulation). Prolonged or repeated ingestion may cause weight loss.

Section 12. Ecological Information

Ecotoxicity
- Ecotoxicity in water (LC50): 520 mg/l 72 hours [Algae (Algae.)]. 190 mg/l 96 hours [Fish (Lepomis macrochirus)]. 193 mg/l 48 hours [Daphnia (daphnia)].

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 product itself and its products of degradation are not toxic.

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)**

![No DOT Pictogram]

### Section 15. Other Regulatory Information and Pictograms

**Federal and State Regulations**
- Pennsylvania RTK: 2-Amino-2-methyl-1-propanol
- Massachusetts RTK: 2-Amino-2-methyl-1-propanol
- Massachusetts spill list: 2-Amino-2-methyl-1-propanol
- TSCA 8(b) inventory: 2-Amino-2-methyl-1-propanol

**California Proposition 65 Warnings**
California prop. 65: 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.
California prop. 65: 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. 204-709-8).
- 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)**
  - CLASS E: Corrosive liquid.
  - R36/38- Irritating to eyes and skin.
  - R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  - S61- Avoid release to the environment.
  - Refer to special instructions/Safety data sheets.

- **DSCL (EEC)**
  - Health Hazard 2
  - Fire Hazard 2
  - Reactivity 0
  - Personal Protection

- **HMIS (U.S.A.)**
  - Health Hazard 2
  - Flammability 2
  - Reactivity 0

- **WHMIS (Canada) (Pictograms)**

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*Continued on Next Page*
2-Amino-2-methyl-1-propanol

Protective Equipment

Gloves.

Full suit.

Wear appropriate respirator when ventilation is inadequate.

Face shield.

Section 16. Other Information

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<td>References</td>
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</tbody>
</table>

Validated by Sonia Owen on 8/6/2010.  
CALL (310) 516-8000

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.