# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>See Section 15.</td>
</tr>
</tbody>
</table>

**Common Name/Trade Name**

**Acetaminophen**

<table>
<thead>
<tr>
<th>Catalog Number(s).</th>
<th>CAS#</th>
<th>RTECS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1278, A1922, AC100</td>
<td>103-90-2</td>
<td>AE4200000</td>
<td>TSCA 8(b) inventory: Acetaminophen</td>
</tr>
</tbody>
</table>

**Manufacturer**

SPECTRUM LABORATORY PRODUCTS INC.
14422 S. SAN PEDRO STREET
GARDENA, CA 90248

**Commercial Name(s)**

Paracetamol

**Synonym**

- N-(4-Hydroxyphenyl)acetamide
- 4'-Hydroxyacetanilide
- 4-Acetamidophenol
- 4-Hydroxyacetanilide
- Abensanil
- Acamol
- Acetagesic
- Acetalin
- Acetaminide, N-(4-hydroxyphenyl)-
- Acetamide, N-(p-hydroxyphenyl)-
- Acetaminofen
- Algotropyl
- Alvedon
- Amadil
- Anafon
- Anelix
- Apamid
- Apamide
- Ben-u-ron
- Calpol
- Cetadol
- Clixodyne
- Datril
- Dial-a-gesic
- Dirox
- Dymadon
- Eneril
- Febrilix
- Febro-gesic
- Febrolin
- Fendol
- Finimal
- Hedex
- Homoolan
- Lestemp
- Lonerid
- Lyteca
- Multin
- N-(4-Hydroxyphenyl)acetamide
- N-Acetyl-p-aminophenol
- N-Acetyl-para-aminophenol
- Napafen
- Napap

**IN CASE OF EMERGENCY**

CHEMTREC (24hr) 800-424-9300

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<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Acetaminide, 4'-hydroxy-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Family</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>C8H9NO2</td>
</tr>
</tbody>
</table>
| Supplier | SPECTRUM LABORATORY PRODUCTS INC.  
14422 S. SAN PEDRO STREET  
GARDENA, CA 90248 |

**Section 2. Composition and Information on Ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>TWA (mg/m³)</th>
<th>STEL (mg/m³)</th>
<th>CEIL (mg/m³)</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Acetaminophen</td>
<td>103-90-2</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Toxicological Data on Ingredients**

Acetaminophen:  
ORAL (LD50): Acute: 1944 mg/kg [Rat]. 2400 mg/kg [Rat]. 338 mg/kg [Mouse].

**Section 3. Hazards Identification**

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

**Potential Chronic Health Effects**

CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP. 3 (Not classifiable for human.) by IARC.  
MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.  
TERATOGENIC EFFECTS: Not available.  
DEVELOPMENTAL TOXICITY: Not available.  
The substance may be toxic to blood, kidneys, liver.  
Repeated or prolonged exposure to the substance can produce target organs damage.
Section 4. First Aid Measures

### Eye Contact
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 if irritation occurs.

### Skin Contact
Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

### Serious Skin Contact
Not available.

### 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. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

### Serious Ingestion
Not available.

Section 5. Fire and Explosion Data

### Flammability of the Product
May be combustible at high temperature.

### Auto-Ignition Temperature
>180°C (356°F)

### Flash Points
Not available.

### 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
Slightly flammable to flammable in presence 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
Not available.

### Special Remarks on Explosion Hazards
Not available.

Section 6. Accidental Release Measures

### Small Spill
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.

### Large Spill
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.

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. If ingested, seek medical advice immediately and show the container or the label.

### Storage
Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.

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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

<table>
<thead>
<tr>
<th>Physical state and appearance</th>
<th>Solid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>151.17 g/mole</td>
</tr>
<tr>
<td>pH (1% soln/water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt;500°C (932°F)</td>
</tr>
<tr>
<td>Melting Point</td>
<td>170°C (338°F)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.293 (Water = 1)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>Water/Oil Dist. Coeff.</td>
<td>The product is more soluble in oil; log(oil/water) = 0.5</td>
</tr>
<tr>
<td>Ionicity (in Water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Dispersion Properties</td>
<td>See solubility in water, methanol, diethyl ether, acetone.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in hot water, methanol, acetone. Partially soluble in cold water, diethyl ether. Solubility in Water: 14,000 mg/l. Soluble in ethanol, dimethylformamide, ethylene dichloride, ethyl acetate. Practically insoluble in petroleum ether, pentane, benzene.</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>The product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instability Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Conditions of Instability</td>
<td>Excess heat, exposure to light, incompatible materials.</td>
</tr>
<tr>
<td>Incompatibility with various substances</td>
<td>Reactive with oxidizing agents.</td>
</tr>
<tr>
<td>Corrosivity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Special Remarks on Reactivity</td>
<td>Sensitive to light.</td>
</tr>
<tr>
<td>Special Remarks on Corrosivity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Polymerization</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

Continued on Next Page
Section 11. Toxicological Information

**Routes of Entry**
Inhalation. Ingestion.

**Toxicity to Animals**
Acute oral toxicity (LD50): 338 mg/kg [Mouse].

**Chronic Effects on Humans**
CARCINOGENIC EFFECTS: Classified 4 (No evidence.) by NTP. 3 (Not classifiable for human.) by IARC.
MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.
May cause damage to the following organs: blood, kidneys, liver.

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

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

**Special Remarks on Chronic Effects on Humans**
May affect genetic material (mutagenic).
Can cause adverse reproductive effects and birth defects (teratogenic).

**Special Remarks on other Toxic Effects on Humans**
Acute Potential Health Effects:
Skin: May cause skin irritation.
Eyes: May cause eye irritation.
Inhalation: May cause respiratory tract irritation.
Ingestion: May be harmful if swallowed. May cause abdominal pain, nausea, vomiting, hypermotility and diarrhea. May cause metabolic acidosis or metabolic alkalosis. May affect the liver (liver function tests impaired, jaundice, hepatitis), and kidneys. May affect behavior/central nervous system (analgesic, somnolence). May cause hypoglycemia. It may affect the blood (blood clotting (prothrombin time))
Chronic Potential Health Effects:
Ingestion: Prolonged or repeated ingestion may cause liver damage (liver function tests impaired, jaundice, hepatitis) and may cause a change in blood clotting factors (low prothrombin time), and changes in red blood cell count. It may also affect the kidneys.

Section 12. Ecological Information

**Ecotoxicity**
Ecotoxicity in water (LC50): 814 mg/l 96 hours [Fish (Pimephales promelas)]. 6.1 mg/l 48 hours [Daphnia (daphnia magna)]. 9.2mg/l 48 hours [Daphnia (daphnia magna)]. 14 mg/l 48 hours [Daphnia (daphnia magna)]. 6 mg/l 24 hours [Daphnia (daphnia magna)]. 32 mg/l 24 hours [Daphnia (daphnia magna)].

**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

<table>
<thead>
<tr>
<th>TSCA 8(b) inventory: Acetaminophen</th>
</tr>
</thead>
</table>

### Other Classifications

<table>
<thead>
<tr>
<th>WHMIS (Canada)</th>
<th>Not controlled under WHMIS (Canada).</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSCL (EEC)</td>
<td>R22- Harmful if swallowed.</td>
</tr>
<tr>
<td></td>
<td>R40- Limited evidence of a carcinogenic effect.</td>
</tr>
<tr>
<td></td>
<td>S46- If swallowed, seek medical advice immediately and show this container or label.</td>
</tr>
</tbody>
</table>

### HMIS (U.S.A.)

- **Health Hazard**: 1
- **Fire Hazard**: 1
- **Reactivity**: 0
- **Personal Protection**: E

### WHMIS (Canada) (Pictograms)

- Red triangle with a circle and diagonal line.

### DSCL (Europe) (Pictograms)

- Red circle with a diagonal line.

### TDG (Canada) (Pictograms)

- Red circle with a diagonal line.

### ADR (Europe) (Pictograms)

- Red circle with a diagonal line.

### Protective Equipment

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

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Continued on Next Page
### Section 16. Other Information

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>A3020</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Special Considerations</td>
<td>Major Use: Analgesic</td>
</tr>
</tbody>
</table>

Validated by Sonia Owen on 10/19/2012. Validated by Sonia Owen. Printed 10/19/2012.

**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.