SAFETY DATA SHEET

Preparation Date: 05/07/2015  Revision Date: 05/12/2016  Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: P1054
Product Name: PHENACETIN, POWDER

Other means of identification

Synonyms: N-(4-Ethoxyphenyl)acetamide; 1-Acetamido-4-ethoxybenzene; 4'-Ethoxyacetanilide; 4-Ethoxyacetanilide; Acet-p-phenalide; Acet-p-phenetidin; Acetamide, N-(4-ethoxyphenyl); Acetanilide, 4‘ethoxy-, Aceto-4-phenetidine; Aceto-para-phenalide; Aceto-para-phenetidin; Acetophenetidin; Acetoacetophenetidin; Acetylphenetidin; p-Acetoacetophenetidin; p-Acetophenetidin; p-Acetophenetidine; p-Acetophenetidin; p-Acetophenetidin; p-Phenetidine, N-Acetyl; para-Acetophenetidin; para-Phenacetin; Phenaphen; Phenin; Phenodyne; Phenazetin

CAS #: 62-44-2
RTECS #: AM4375000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Use advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number
Chemtrec 1-800-424-9300

Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity</td>
<td>Category 1A</td>
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Label elements

Product code: P1054  Product name: PHENACETIN, POWDER
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
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<tr>
<td>Phenacetin</td>
<td>62-44-2</td>
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4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
May cause cancer. May affect the liver. It may affect the kidneys. It may affect the blood. May cause methemoglobinemia and cyanosis. May affect the cardiovascular system. May cause central nervous system effects. May cause liver injury and hemolytic anemia. May cause gastrointestinal disturbances. May cause nausea. Dyspnea (Difficulty breathing and shortness of breath).

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically

**Protection of first-aiders**
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

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### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon oxides, Nitrogen oxides

**Specific hazards:** May be combustible at high temperatures

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:
Incompatible with oxidizing agents such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine, fluorine.
Incompatible with strong acids such as hydrochloric, sulfuric, and nitric.
Incompatible with strong bases such as sodium hydroxide, postassium hydroxide.
Incompatible with strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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Canada

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<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
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Product code: P1054  Product name: PHENACETIN, POWDER
Australia and Mexico

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<tr>
<td>62-44-2</td>
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</table>

Appropriate engineering controls

**Engineering measures to reduce exposure:**
Ensure adequate ventilation. 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.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:**
Goggles or Safety glasses with side-shields

**Skin and body protection:**
Chemical resistant apron. Gloves. Long sleeved clothing.

**Respiratory protection:**
Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:**
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES
9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid
**Appearance:** Crystalline powder.
**Color:** White.

**Odor:** Odorless.
**Taste:** Bitter.
**Formula:** C10H13NO2

**Molecular/Formula weight:** 179.22
**Flammability:** No information available
**Flashpoint (°C/°F):** No information available.

**Flash Point Tested according to:** Not available
**Autoignition Temperature (°C/°F):** No information available
**Lower Explosion Limit (%):** No information available

**Upper Explosion Limit (%):** No information available
**pH:** No information available
**Melting point/range(°C/°F):** 134°-137°C/273.2°-278.6°F

**Decomposition temperature(°C/°F):** No information available
**Boiling point/range(°C/°F):** No information available
**Bulk density:** No information available

**Density (g/cm³):** No information available
**Specific gravity:** No information available
**Vapor pressure @ 20°C (kPa):** No information available

**Evaporation rate:** No information available
**Vapor density:** No information available
**VOC content (g/L):** No information available

**Odor threshold (ppm):** No information available
**Partition coefficient (n-octanol/water):** 1.6
**Viscosity:** No information available

**Miscibility:** No information available
**Solubility:** Soluble in acetone.
Partially soluble in cold water, hot water, diethyl ether.
1g dissolves in 1310 ml cold water, 82 ml boiling water, 15 ml cold alcohol, 2.8 ml boiling alcohol, 14 ml chloroform, 90 ml ether.
Soluble in glycerol.
Very soluble in pyridine.
Slightly soluble in benzene.
Solubility in water: 530 mg/l @ 25°C.

10. STABILITY AND REACTIVITY

**Reactivity**
- Reactive with acids
- Reactive with alkalis
- Reactive with oxidizing agents
- Reacts with reducing agents

**Chemical stability**
**Stability:** Stable under recommended storage conditions

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.
Incompatible Materials: Incompatible with oxidizing agents such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine, fluorine. Incompatible with strong acids such as hydrochloric, sulfuric, and nitric. Incompatible with strong bases such as sodium hydroxide, postassium hydroxide. Incompatible with strong reducing agents.

Hazardous decomposition products: Carbon oxides.

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information

Phenacetin - 62-44-2

LD50/oral/rat = 1650 mg/kg Oral LD50 Rat
LD50/oral/mouse = 866 mg/kg Oral LD50 Mouse
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = 33900 mg/m³ Inhalation LC50 Mouse
Other LD50 or LC50 information = 1870 mg/kg Oral LD50 Guinea Pig; 1690 mg/kg Oral LD50 Hamster

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 1650mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 866mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available

Product code: P1054
Product name: PHENACETIN, POWDER
VALUE - Gas = No information available
VALUE - Dust/Mist = 33900 mg/m³

Symptoms

Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation.

Inhalation
May cause respiratory tract irritation. It may cause methemoglobinemia (deficient oxygenation of the blood), cyanosis (bluish discoloration of skin and lips due to deficient oxygenation of the blood), which can result in fatigue, dizziness, headache, convulsions/seizures, tachycardia, hypertension, dyspnea (labored breathing), and death.

Ingestion
Harmful if swallowed. It may cause gastrointestinal disturbances, nausea. It may affect behavior/central nervous system (somnolence, convulsions/seizures, ataxia, lightheadedness, dizziness, drowsiness, coma), respiration (respiratory depression, labored breathing), and cardiovascular system. It may also affect the kidneys, and liver. May cause methemoglobinemia, (the formation of methemoglobin in the blood which causes deficient oxygenation of the blood due to decreased available hemoglobin). Signs and symptoms of methemoglobinemia include shortness of breath, cyanosis (a bluish discoloration of the skin, lips, mucous membranes), mental status changes such as headache, mental impairment, fatigue, muscular weakness, exercise intolerance, lightheadedness, dizziness, incoordination, seizures, and loss of consciousness. Arterial blood with elevated methemoglobin levels has a characteristic chocolate-brown color as compared to normal bright red oxygen containing arterial blood. Severe methemoglobinemia is characterized by bradycardia or tachyardia (slow or fast heart beat), dysrhythmias, seizures, coma and death. May cause hemolytic anemia.

Aspiration hazard
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
Ingestion: Repeated or prolonged ingestion may result in gastrointestinal disturbances, including peptic ulcer.
Ingestion and Inhalation: Repeated exposure may affect the cardiovascular system (hypertension, cardiac arrest), liver (jaundice. liver function tests impaired), kidneys (renal papillary necrosis, renal failure, dark brown urine), blood (methemoglobinemia, cyanosis, thrombocytopenia, hemolytic anemia), thymus.
Skin: Prolonged skin contact may cause allergic reaction (dermatitis). Prolonged or repeated ingestion of very large amounts may affect the blood (red blood cell count; pigmented or nucleated red blood cells) (RTECS - animal study).

Sensitization:
No information available

Mutagenic Effects:
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects:
Carcinogenic. May cause cancer.

<table>
<thead>
<tr>
<th>Components</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<td>PHENACETIN, POWDER</td>
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</table>

Product code: P1054  Product name: PHENACETIN, POWDER
Phenacetin

| Group 1 - Monograph 100A [2012]| overall evaluation upgraded from Group 2A to Group 1 with supporting evidence from other relevant data | Not listed | Reasonably Anticipated To Be A Human Carcinogen | Present | Not listed | Not listed |

**IARC (International Agency for Research on Cancer)**  
Group 1 - Carcinogenic to Humans  
NTP (National Toxicology Program)  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

**Reproductive toxicity**  
No data is available

**Reproductive Effects:** May cause adverse reproductive effects based on animal data  
**Developmental Effects:** May cause adverse developmental effects based on animal data  
**Teratogenic Effects:** There is limited evidence that it may damage the developing human fetus

**Specific Target Organ Toxicity**

**STOT - single exposure**  
No information available

**STOT - repeated exposure**  
No information available

**Target Organs:** Blood. Methemoglobin formation. Kidneys. Liver.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available

**Mobility:** No information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**  
Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**  
Empty containers should be taken for local recycling, recovery or waste disposal

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<tbody>
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**Product code:** P1054  
**Product name:** PHENACETIN, POWDER
14. TRANSPORT INFORMATION

**DOT**

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<tr>
<td>Packing Group:</td>
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<td>Marine Pollutant:</td>
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<td>DOT RQ (lbs):</td>
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<td>Special Provisions:</td>
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<td>Symbol(s):</td>
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**TDG (Canada)**

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**ADR**

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**IMO / IMDG**

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**RID**

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**ICAO**

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**IATA**

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**Product code:** P1054

**Product name:** PHENACETIN, POWDER
14. TRANSPORT INFORMATION

- **Subsidiary Risk:** No information available
- **Packing Group:** No information available
- **ERG Code:** No information available
- **Special Provisions:** No information available

15. REGULATORY INFORMATION

### International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS (3)-697</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
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<td>Present</td>
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<td>Present 200-533-0</td>
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### U.S. Regulations

**Phenacetin**
- **Massachusetts RTK**: Present
- **New Jersey RTK Hazardous Substance List**: 1483
- **New Jersey - Discharge Prevention - List of Hazardous Substances**: Present
- **Pennsylvania RTK**: Environmental hazard
- **Pennsylvania RTK - Environmental Hazard List**: Present
- **Pennsylvania RTK - Special Hazardous Substances**: Present
- **Minnesota - Hazardous Substance List**: Present
- **New York Release Reporting - List of Hazardous Substances**: = 100 lb RQ
- **Louisiana Reportable Quantity List for Pollutants**: Listed
- **California Directors List of Hazardous Substances**: Present

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**
WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<tr>
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### CERCLA/SARA

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<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
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<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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### U.S. TSCA

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<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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**Canada**
WHMIS hazard class:  
D2A Very toxic materials

Phenacetin  
D2A

Canada Controlled Products Regulation:  
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

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<th>Components</th>
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<table>
<thead>
<tr>
<th>Components</th>
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<td>Phenacetin</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenacetin</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

R-phrase(s)
R22 - Harmful if swallowed.  
R45 - May cause cancer.

S -phrase(s)
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S53 - Avoid exposure - obtain special instructions before use.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenacetin</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:  
T - Toxic  
Xn - Harmful.

16. OTHER INFORMATION
Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) 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 SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet