1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product code:** S3335  
**Product Name:** (+/-)-SULPIRIDE  
**Chemical Name:** o-Anisamide, N-((1-ethyl-2-pyrrolidinyl)methyl)-5-sulfamoyl- 
**Synonyms:** 5-(Aminosulfonyl)-N-((1-ethyl-2-pyrrolidinyl)methyl)-2-methoxybenzamide  
Abilit  
Aiglonyl  
Benzamide, 5-(aminosulfonyl)-N-((1-ethyl-2-pyrrolidinyl)methyl)-2-methoxy- (9CI)  
Coolspan  
Dobren  
Dogmatil  
Dogmatyl  
Eglonyl  
Guastil  
Miradol  
Mirbanil  
Misulvan  
N-((1-Ethyl-2-pyrrolidinyl)methyl)-2-methoxy-5-sulfamoylbenzamide  
Omperan  
Pyrkappl  
Sernevin  
Splotin  
Sulpirid  
Sulpiride  
Sulpyrid  
Sursumid  

**Recommended use:** No information available.  
**CAS #:** 15676-16-1  
**Formula:** C15-H23-N3-O4-S  
**RTECS #:** BZ3400000  
**C#:** Not available

---

**NFPA**  
**HMIS**  
**Personal Protective Equipment**

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Fire Hazard</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

See Section 8.
2. HAZARDS IDENTIFICATION

OSHA Regulatory Status
This material is not considered hazardous by the OSHA Hazard Communication Standard (29 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Potential Health Effects:

Skin Contact:
May cause skin irritation.

Eye Contact:
Contact with eyes may cause irritation.

Inhalation:
May cause irritation of respiratory tract.

Ingestion:
Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea. May cause constipation. May affect the liver. May cause central nervous system effects. May affect the cardiovascular system. May affect respiration. May cause vision disturbances.

Chronic Potential Health Effects:

Target Organs: No information available
Carcinogen Status: No information available
Mutagenic Effects: No information available
Teratogenic Effects: No information available
Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
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<tbody>
<tr>
<td>(+/-)-Sulpiride</td>
<td>15676-16-1</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops.

Eye Contact: Flush eye 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. Consult a physician if necessary.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashpoint (°C/°F)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Lower Explosion Limit (%)</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper Explosion Limit (%)</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition Temperature (°C/°F)</td>
<td>No information available</td>
</tr>
</tbody>
</table>

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

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, Nitrogen oxides, oxides of Sulfur

Specific hazards: May be combustible at high temperatures.

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

Specific Methods: No information available.

6. ACCIDENTAL RELEASE MEASURES
Personal Precautions:  
Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Avoid contact with skin, eyes and clothing.

Environmental Precautions:  
Do not let product enter drains.

Methods for Cleaning Up:  
Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

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

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

Storage

Technical Measures/Storage Conditions:  
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep refrigerated. Keep at temperatures between 2 and 8 °C. Store away from incompatible materials.

Incompatible Products:  
Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Personal Protective Equipment

Eye protection:  
Safety glasses. Safety glasses with side-shields.

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

Respiratory protection:  
Wear respirator with dust filter.

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.

National occupational exposure limits

United States  
U.S Occupational Exposure Limits: Not determined

Canada  
Canada Occupational Exposure Limits: Not determined

Product code: S3335  
Product name: (+/-)-SULPIRIDE
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
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</tr>
<tr>
<td>Appearance</td>
<td>Powder</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
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</tr>
<tr>
<td>Taste</td>
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<tr>
<td>Molecular weight</td>
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<tr>
<td>Upper Explosion Limit (%)</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition Temperature (°C/°F)</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature(°C/°F)</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific gravity</td>
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<tr>
<td>Melting point/range(°C/°F)</td>
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</tr>
<tr>
<td>Decomposition temperature(°C/°F)</td>
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<tr>
<td>Specific gravity</td>
<td>No information available</td>
</tr>
<tr>
<td>Density (g/cm³)</td>
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</tr>
<tr>
<td>Bulk density</td>
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<tr>
<td>Vapor density</td>
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<tr>
<td>Evaporation rate</td>
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<tr>
<td>Odor threshold (ppm)</td>
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<tr>
<td>Partition coefficient</td>
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</tr>
<tr>
<td>Miscibility</td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Conditions to avoid: Heat. Ignition sources. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Materials to avoid: Strong oxidising agents.


Possibility of Hazardous Reactions: No information available

Polymerization: Hazardous polymerisation does not occur

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Component Information

(±)-Sulpiride - 15676-16-1
- LC50/inhalation/rat = No information available
- LC50/inhalation/mouse = No information available
- LD50/dermal/rabbit = Not determined
- LD50/dermal/rat = No information available
- LC50/inhalation/rat = No information available
- LC50/inhalation/mouse = No information available

Product Information

- LC50/inhalation/rat = No information available
- LC50/inhalation/mouse = No information available
- LD50/dermal/rabbit = No information available
- LD50/dermal/rat = Not information available
- LD50/oral/rat = 9800 mg/kg
- LD50/oral/mouse = 1700 mg/kg

Local Effects

- Skin irritation: May cause skin irritation.
- Eye irritation: Contact with eyes may cause irritation.
- Inhalation: May cause irritation of respiratory tract.
- Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause constipation. May affect liver. May affect the cardiovascular system (hypotension or hypertension, tachycardia, dysrhythmias). May affect behavior/central nervous system (sedation, dizziness, irritability, headache, restlessness, impaired concentration, agitation, hallucinations, CNS depression). May affect behavior/central nervous system (tremor, convulsions). May affect behavior/central nervous system (somnolence). May cause dry mouth. May cause vision disturbances. May affect respiration (respiratory depression). It may affect the brain.

Sensitization:

- No information available

Chronic Toxicity

Chronic Toxicity

- Prolonged or repeated ingestion affect metabolism (cause anorexia, weight loss).
- Prolonged or repeated ingestion may affect the liver. Prolonged or repeated ingestion may cause sweating. Prolonged or repeated ingestion may cause blurred vision.
- Prolonged or repeated ingestion may affect behavior/central nervous system.
- Prolonged or repeated ingestion may affect the blood (changes in white blood cell count). Prolonged or repeated ingestion may cause hyperglycemia. Prolonged or repeated ingestion may affect the cardiovascular system. Prolonged or repeated ingestion may cause spontaneous flow of milk from the breast, breast enlargement, absence of menstrual period.

Carcinogenic effects:

- No information available

Mutagenic Effects:

- No information available

Product code: S3335
Product name: (+/-)-SULPIRIDE
Reproductive Effects: Experiments have shown reproductive toxicity effects on laboratory animals. May cause adverse reproductive effects based on animal test data. There are no adequate and well-controlled studies in humans. Data in humans were insufficient to evaluate the effects on reproduction.

Teratogenic Effects: No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: No information available

Ecotoxicity effects: No data available

Aquatic toxicity: No information available

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(+/-)-Sulpiride</td>
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<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: None
Subsidiary Risk: Not applicable
Marine Pollutant: No data available
ERG No: No information available
DOT RQ (lbs): No information available

TDG (Canada)

Proper Shipping Name: No information available
UN-No: Not regulated
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Description: No information available

ADR

Proper Shipping Name: No information available

Product code: S3335 Product name: (+/-)-SULPIRIDE
UN-No: Not regulated
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
Proper Shipping Name: No information available
UN-No: Not regulated
Hazard Class: No information available
Packing Group: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
MFAG: No information available
Maximum Quantity: No information available

RID
Proper Shipping Name: No information available
UN-No: Not regulated
Hazard Class: No information available
Packing Group: No information available
Classification Code: No information available
Description: No information available

ICAO
UN-No: Not regulated
Hazard Class: No information available
Proper Shipping Name: No information available
Packing Group: No information available
Description: No information available

IATA
Proper Shipping Name: No information available
UN-No: Not regulated
Hazard Class: No information available
Packing Group: No information available
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>Philippines (PICCS)</th>
<th>KOREA KECL</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<td>KE-01598</td>
<td>9-2168</td>
<td>Not present</td>
<td>Present</td>
<td>239-753-7</td>
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</tbody>
</table>

U.S. Regulations

Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (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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</thead>
<tbody>
<tr>
<td>(+/-)-Sulpiride</td>
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<td>Not Listed</td>
<td>Not Listed</td>
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</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<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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</thead>
<tbody>
<tr>
<td>(+/-)-Sulpiride</td>
<td>None</td>
<td>None</td>
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</table>

U.S. TSCA

<table>
<thead>
<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>
</tr>
</thead>
<tbody>
<tr>
<td>(+/-)-Sulpiride</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
Non-controlled

Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(+/-)-Sulpiride</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

EU Classification

R -phrase(s)
not determined

S -phrase(s)
none

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

Indication of danger:
Not dangerous

16. OTHER INFORMATION

Product code: S3335  Product name: (+/-)-SULPIRIDE
16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1-2004 standards.

Revision date: 10-May-2010

Reason for revision: Not applicable

Additional advice: Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

Prepared by: Health & Safety

Literature reference: No information available

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. The physical properties reported in this MSDS 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 MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

Product code: S3335  Product name: (±)-SULPIRIDE