**Material Safety Data Sheet**

### Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Fluoxetine Hydrochloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Number(s)</td>
<td>F1200</td>
</tr>
<tr>
<td>CAS#</td>
<td>59333-67-4 or 56296-78-7</td>
</tr>
<tr>
<td>RTECS</td>
<td>UI4050000</td>
</tr>
<tr>
<td>TSCA</td>
<td>TSCA 8(b) inventory: No products were found.</td>
</tr>
<tr>
<td>CI#</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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

#### Commercial Name(s)

#### Synonym
(+-)-Methyl-gamma-(4-(trifluoromethyl)phenoxy)benzenepropanamine hydrochloride; 3-(p-Trifluoromethylphenoxy)-N-methyl-3-phenylpropylamine hydrochloride; N-Methyl-3-phenyl-3-[4-(trifluoromethyl)phenoxy]propylamine hydrochloride

#### Chemical Name
Propylamine, N-methyl-3-phenyl-(p-trifluoromethylphenoxy)-, hydrochloride

#### Chemical Family
Not available.

#### Chemical Formula
C17-H18-F3-N-O.HCl

#### 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) Fluoxetine Hydrochloride</td>
<td>59333-67-4</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

#### Toxicological Data on Ingredients
Fluoxetine Hydrochloride:
ORAL (LD50): Acute: 452 mg/kg [Rat]. 248 mg/kg [Mouse].
### Section 3. Hazards Identification

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential Acute Health Effects</td>
<td>Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.</td>
</tr>
<tr>
<td>Potential Chronic Health Effects</td>
<td>CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.</td>
</tr>
</tbody>
</table>

### Section 4. First Aid Measures

<table>
<thead>
<tr>
<th>Effect Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact</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. Get medical attention.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.</td>
</tr>
<tr>
<td>Serious Skin Contact</td>
<td>Not available.</td>
</tr>
<tr>
<td>Inhalation</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>Serious Inhalation</td>
<td>Not available.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>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.</td>
</tr>
<tr>
<td>Serious Ingestion</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>Flammability of the Product</td>
<td>May be combustible at high temperature.</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash Points</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Products of Combustion</td>
<td>These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...), halogenated compounds.</td>
</tr>
<tr>
<td>Explosion Hazards in Presence of Various Substances</td>
<td>Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.</td>
</tr>
<tr>
<td>Fire Fighting Media and Instructions</td>
<td>SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.</td>
</tr>
<tr>
<td>Special Remarks on Fire Hazards</td>
<td>As with most organic solids, fire is possible at elevated temperatures</td>
</tr>
<tr>
<td>Special Remarks on Explosion Hazards</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>

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**Continued on Next Page**
Fluoxetine Hydrochloride

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. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage
Keep container tightly closed. Keep container in a cool, well-ventilated area. Store at temperatures between 15 and 30 deg. C. Do not store above 30° C (86° F).

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
Splash goggles. 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.)

Molecular Weight
345.79 g/mole

pH (1% soln/water)
Not available.

Boiling Point
Not available.

Melting Point
158°C (316.4°F)-159 deg. C

Critical Temperature
Not available.

Specific Gravity
Not available.

Vapor Pressure
Not applicable.

Vapor Density
Not available.

Volatility
Not available.

Odor Threshold
Not available.

Water/Oil Dist. Coeff.
Not available.

Ionicity (in Water)
Not available.

Dispersion Properties
Not available.

Solubility
Very slightly soluble in methanol. Freely soluble in Dichloromethane, Chloroform, DMF, DMSO. Sparingly soluble in Ethanol, Methanol, Isopropanol, Ethyl Acetate, Acetonitrile

Continued on Next Page
**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, 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>
</tbody>
</table>

**Special Remarks on Reactivity**

Incompatible with oxidizing agents (e.g. peroxides, permanganes, nitric acid, etc.)

**Special Remarks on Corrosivity**

Not available.

**Polymerization**

Will not occur.

**Section 11. Toxicological Information**

**Routes of Entry**

Inhalation. Ingestion.

**Toxicity to Animals**

Acute oral toxicity (LD50): 248 mg/kg [Mouse]. 452 mg/kg [Rat]

**Chronic Effects on Humans**

May cause damage to the following organs: liver, central nervous system (CNS).

**Other Toxic Effects on Humans**

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.

**Special Remarks on Toxicity to Animals**

Lowest Published Toxic Dose/Conc:

- TDL [Human] - Route: Oral; Dose: 7.8 mg/kg
- TDL [Woman] - Route: Oral; Dose: 0.4 mg/kg
- TDL [Child] - Route: Oral; Dose: 26 mg/kg

**Special Remarks on Chronic Effects on Humans**

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 cause gastric irritation. May cause gastritis, excessive sweating, sore throat, thirst, increased salivation, tongue discoloration, fecal incontinence, stomatitis, dysphagia, eructation, esophagitis, gingivitis, melena, nausea, disturbances in appetite, diarrhea, vomiting, bloody diarrhea, colitis, duodenal or gastric ulcer, salivary gland enlargement. May cause skin rash. Systemic events may develop in individuals with rash. Although these are rare, they may be serious, involving the lung, kidney, or liver. Bronchitis, rhinitis, anaphylactoid events including asthma, bronchospasm, angioedema, and urticaria alone and in combination have been reported. Pulmonary events including inflammatory processes of varying histopathology and/or fibrosis, have been reported rarely. These events have occurred with dyspnea as the only preceding symptom. May affect behavior/central nervous system/nervous system, with symptoms such as dizziness, memory loss, anxiety, nervousness, insomnia, abnormal dreams, agitation, fatigue, drowsiness, confusion, delusions, hallucinations, psychosis, aggressiveness, impulsiveness, paranoid reaction, panic attacks, depersonalization, apathy, emotional lability, euphoria, hostility, amnesia, increased libido, antisocial reaction, hysteria, suicidal ideation, violent behavior, hypomania, mania, seizures, dizziness, asthenia and headaches, tremor, lightheadedness, abnormal gait, ataxia, akathisia, buccoglossal syndrome, vertigo, tinnitus, hypesthesia, neuralgia, neuropathy, acute brain syndrome photophobia, incoordination, neck rigidity, extrapyramidal syndrome, stupor, coma, paralysis paresthesia, carpal tunnel syndrome, dyskinesias and other movement disorders. Hyponatremia, altered platelet function. May also affect the liver and cause abnormal liver function tests, jaundice, hepatitis, liver tenderness. May also affect the endocrine system (pancreatitis, hypoglycemia, hypothyroidism, gout), and cardiovascular system (chest pain, hypertension, syncope, hypotension (including postural hypotension), angina, pectoris, arrhythmia, tachycardia, bradycardia, ventricular arrhythmia, myocardial infarction, cerebral ischemia, cerebral vascular accident, thrombophlebitis), blood (anemia, lymphadenopathy, hemorrhage, bleeding time increased, leukocytosis, lymphocytosis, thrombocytopenia, thrombocytopenic purpura, thrombocytopenia, petechia, purpura, sedimentation rate increased, aplastic anemia, pancytopenia, immune-related hemolytic anemia), urinary system (frequent micturation, urinary tract infection, urethral pain, urethral calculus, urethritis, hematuria, albuminuria, polyuria). May also cause musculoskeletal system effects such as muscle pain, back pain, joint pain, arthritis, bone...
pain, bursitis, tenosynovitis, twitching.

Chronic Potential Health Effects:

Skin: Contact dermatitis (rash) has been reported with occupational exposure to Fluoxetine hydrochloride. Ingestion: Prolonged or repeated ingestion may affect respiratory system (progressive development of dyspnea, lung infiltrates, and restrictive lung disease, consistent with hypersensitivity pneumonitis), behavior/central nervous system (symptoms similar to acute ingestion), metabolism and cause weight loss and hypokalemia. Hypokalemia may lead to cardiac conduction abnormalities. It may also affect the liver with symptoms similar to acute ingestion.

Section 12. Ecological Information

Ecotoxicity
Ecotoxicity in water (LC50): 1.57 mg/l 96 hours [Fish (Trout)]. 0.94 mg/l 48 hours [Daphnia (daphnia)]. 0.49 mg/l 96 hours [Fish (Zebra fish (danio rerio))].

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 as toxic as 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)

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations
No products were found.

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. 220-101-2)
Canada: Not listed on Canadian Domestic Substance List (DSL) or Canadian Non-Domestic Substance List (NDSL).
China: Not listed on National Inventory.
Japan: Not listed on National Inventory (ENCS).
Korea: Not listed on National Inventory (KECI).
Philippines: Not listed on National Inventory (PICCS).
Australia: Not listed on AICS.

Other Classifications
WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).
DSCL (EEC)
### HMIS (U.S.A.)

| Health Hazard | 2 |
| Fire Hazard   | 1 |
| Reactivity    | 0 |
| Personal Protection | E |

### WHMIS (Canada)

(Not shown in the image)

### DSCL (Europe)

(Not shown in the image)

### TDG (Canada)

(Not shown in the image)

### ADR (Europe)

(Not shown in the image)

### Protective Equipment

- Gloves.
- Lab coat.
- Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
- Splash goggles.

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R22: Harmful if swallowed.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S46: If swallowed, seek medical advice immediately and show this container or label.
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

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Continued on Next Page
# Section 16. Other Information

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>F3347</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
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<tr>
<td>Other Special Considerations</td>
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</tbody>
</table>

Validated by Sonia Owen on 6/22/2012.  
Verified by Sonia Owen.  
Printed 6/22/2012.

**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.