Section 1. Product and Company Identification

Product Name: Fluoxetine Hydrochloride
Product ID: F4780
Chemical Name (Synonyms): Adofen; Fluoxeren; Lovan; Prozac; Sarafem
Supplier: LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lktlabs.com

Emergency Phone #: 1-800-424-9300

Section 2. Hazards Identification

GHS Classification:
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Skin (Category 4), H312
Serious eye damage/ eye irritation (Category 1), H318
Acute toxicity, inhalation (Category 4), H332
Reproductive toxicity, (Category 2), H361
Acute aquatic toxicity, (Category 1), H400

GHS Label elements including precautionary statements

Pictogram

Signal word: Danger
Hazard statements:
H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H318 - Causes serious eye damage.
H332 - Harmful if inhaled.
H361 - Suspected of damaging fertility or the unborn child.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements:
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust, fumes, gas, mist, vapors, spray.
P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink, or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P281 - Use personal protective equipment as required.
P301 + P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352 - IF ON SKIN: wash with plenty of soap and water.
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a POISON CENTER or doctor/physician.
P312 - Call a POISON CENTER or doctor, physician if you feel unwell.
P322 - Specific measures (see supplemental 1st aid instructions on this label).
P330 - Rinse mouth. P363 - Wash contaminated clothing before reuse.
P331 - Collect spillages. Hazardous to the aquatic environment.
P405 - Store locked up.
P501 - Dispose of contents/and or container to an approved waste disposal plant.

HMIS Classification:
Health Hazard: 2
Flammability: 1
Physical Hazard: 0

NFPA Rating:
Health Hazard: 2
Fire: 1
Reactivity Hazard: 0

Potential Health Effects:
Inhalation: Acute toxicity. Harmful if inhaled. May be harmful to upper respiratory tract.
Skin: Acute toxicity. Harmful in contact with skin. Harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes serious eye damage.
Section 3. Composition/Information on Ingredients

Substances
Ingredient: Title Compound
Formula: C_{17}H_{18}F_{3}NO • HCl
CAS No.: 59333-67-4

Section 4. First Aid Measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact
Flush eyes with water as a precaution.

Skin Contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

Flash Point
Not available.

Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Firefighting Procedures
Wear self-contained breathing apparatus for firefighting if necessary.

Unusual Fire Hazards
Not available.

Section 6. Accidental Release Measures

Personal Precautions
Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleanup
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed container for disposal.

Section 7. Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Ambient

Hazardous Decomposition Products
Hazardous decomposition products formed under fire conditions. Carbon oxides.

Other Remarks
None.
Section 8. Exposure Controls/Personal Protection

**Personal protective equipment**

**EXPOSURE CONTROLS**
Contains no substances with occupational exposure limit values.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**PERSONAL PROTECTION**

**Eye Protection**
Face shield and safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin Protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full and Splash contact - Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min., Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).

**Body Protection**
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection**
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid.</td>
<td>White crystal powder.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>158.4°C-158.9°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in methanol, ethanol, acetone, acetonitrile and chloroform. Water to 10 mM, DMSO to 100 mM. DMF to 16 mg/mL. Ethanol to 69 mg/mL</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not available.</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not available.</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Water to 10 mM.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Volatility</td>
<td>Not available.</td>
</tr>
<tr>
<td>Density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

**Stability**

Stable under recommended storage conditions.

**Materials To Avoid**

Keep away from heat and strong oxidizing agents.

**Hazardous Decomposition Products**

Hazardous decomposition products formed under fire conditions. Carbon oxides.
### Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oral LD₅₀</strong></td>
<td>Rat - 452 mg/kg Mouse - 248 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation LC₅₀</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Dermal LD₅₀</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Other information on acute toxicity</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Specific organ toxicity single exposure (GHS)</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Specific organ toxicity repeated exposure (GHS)</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Aspiration Hazard</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Synergistic effects</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>RTECS</strong></td>
<td>UI4050000</td>
</tr>
</tbody>
</table>

#### Skin
- **corrosion/irritation**
  - Skin - rabbit - No skin irritation
- **Serious eye damage/irritation**
  - Eyes - rabbit - severe eye irritation
- **Respiratory or skin sensitization**
- **Germ cell mutagenicity**

#### Reproductive Toxicity
- Reproductive toxicity - rabbit - Oral Maternal Effects: Other effects.
- Reproductive toxicity - rat - Oral Effects on Newborn: Stillbirth.

#### Specific organ toxicity
- **single exposure (GHS)**: Not available.
- **repeated exposure (GHS)**: Not available.

#### Teratogenicity
- Developmental Toxicity - rat - Subcutaneous Specific Developmental Abnormalities: Central nervous system. Effects on Newborn: Growth statistics (e.g., reduced weight gain).

#### Potential Health Effects
- Inhalation: Acute toxicity. Harmful if inhaled. May be harmful to upper respiratory tract.
- Skin: Acute toxicity. Harmful in contact with skin. Harmful if absorbed through skin. Causes skin irritation.
- Eyes: Causes serious eye damage.
- Ingestion: Acute toxicity. Harmful if swallowed.
- Reproduction: Suspected of damaging fertility or the unborn child.

#### Carcinogenicity
- **IARC**: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
- **ACGIH**: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- **NTP**: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- **OSHA**: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Mobility in soil</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>PBT and vPvB assessment</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Section 13. Disposal Considerations

Waste Disposal
Dispose of material according to all federal, state, and local regulations.
Offer material to a licensed, professional waste disposal company to dispose of as unused product.

Section 14. Transport Information

DOT (US)  UN number: 3077  Class: 9  Packing Group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Fluoxetine hydrochloride)

IATA  UN number: 3077  Class: 9  Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Fluoxetine hydrochloride)

IMDG  UN number: 3077  Class: 9  Packing group: III  EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Fluoxetine hydrochloride) Marine pollutant: Marine pollutant

Section 15. Regulatory Information

Reach No.

SARA 302 Components  SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title II, Section 302.

SARA 313 Components  SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components  Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components  No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components  Fluoxetine Hydrochloride  CAS #: 59333-67-4  Revision Date:

New Jersey Right To Know Components  Fluoxetine Hydrochloride  CAS #: 59333-67-4  Revision Date:

California Prop 65 Components  This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

Other information  The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.