1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Fluoxetine hydrochloride
Product Number: F132
Brand: Sigma
Company: Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
Telephone: +1 800-325-6832
Fax: +1 800-325-5062
Emergency Phone #: (314) 776-4555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:
(+)-N-Methyl-4-(trifluoromethyl)phenoxylbenzene[propanaminehydrochloride
Peroxide:
LY-110,140hydrochloride
Formula: C_{17}H_{20}F_{3}NO - HCl
Molecular Weight: 345.79 g/mol

CAS-No.: 56290-76-7
EC-No.: -
Index-No.: 120-101-2
Concentration: -

Methyl[3-phenyl-3-(trifluoromethyl)phenoxylpropyl]ammonium chloride

3. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
Target Organ Effect, Toxic by ingestion, irritant

Target Organs
Central nervous system, Liver

HMD Classification
Health Hazard: 2
Chronic Health Hazard: *
Flammability: 0
Physical hazard: 0

NFPA Rating
Health Hazard: 2
Fire: 0

Reactivity Hazard: 0
Potential Health Effects
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: Toxic if swallowed.

4. FIRST AID MEASURES

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

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

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammability properties
Flash point: no data available

Ignition temperature: no data available

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

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 for cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage
Keep container tightly closed in a dry and well-ventilated place.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate regulation standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves.

Eye protection
Safety glasses

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>solid</td>
</tr>
<tr>
<td>Safety data</td>
<td>data available</td>
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<tr>
<td>pH</td>
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<td>Melting point</td>
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<tr>
<td>Ignition temperature</td>
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<tr>
<td>Lower explosion limit</td>
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<tr>
<td>Upper explosion limit</td>
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</tr>
<tr>
<td>Water solubility</td>
<td>data available</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>log Pow: 1.8 at 25 °C (77 °F) n-octanol/water</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Storage stability
Stable under recommended storage conditions.

Materials to avoid
Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Oral - rat - 452 mg/kg

Irritation and corrosion
Skin - rabbit - No skin irritation
Eyes - rabbit - Severe eye irritation

Sensitisation
No data available

Chronic exposure
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential 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 carcinogen or potential 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.

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

Developmental Toxicity - rat - Oral
Specific Developmental Abnormalities: Skin and skin appendages.

Developmental Toxicity - Human - Human - Oral
Specific Developmental Abnormalities: Central nervous system.

Reproductive toxicity - rabbit - Oral
Maternal Effects: Other effects.

Reproductive toxicity - rat - Oral
Effects on Newborn: Stillbirth. Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Signs and Symptoms of Exposure
Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Toxic if swallowed.

Target Organs: Central nervous system, Liver.

Additional Information
RTECS: UI405300

12. ECOLOGICAL INFORMATION
Elimination Information (persistence and degradability)
no data available

Ecotoxicity effects
Toxicity to fish
LC50 - Oncorhynchus mykiss (rainbow trout) - 1.57 mg/l - 96 h

Toxicity to daphnia
EC50 - Daphnia magna (Water flea) - 0.94 mg/l - 48 h
and other aquatic invertebrates.

Further information on ecology
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS
Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dispose of or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION
DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION
OSHA Hazards
Target Organ Effect, Toxic by ingestion, Irritant

DSL Status
This product contains the following components that are not on the Canadian DSL nor NDSL lists.
Methyl(3-phenyl-3-[4-(trifluoromethyl)phenoxy]propyl)ammonium chloride

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, 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 Hazards
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
Methyl(3-phenyl-3-[4-(trifluoromethyl)phenoxy]propyl)ammonium chloride

New Jersey Right To Know Components
Methyl(3-phenyl-3-[4-(trifluoromethyl)phenoxy]propyl)ammonium chloride

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

16. OTHER INFORMATION
Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present status of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.