

Safety Data Sheet

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1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifiers

Product Name: Fluoxetine hydrochloride
 Catalog Number: NB-48-0410
 CAS Number: [59333-67-4]
 EC Number: [260-101-2]
 IUPAC Name: *N*-Methyl-3-phenyl-3-(4-(trifluoromethyl)phenoxy)propylamine hydrochloride

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: For laboratory research purposes only. Not for drug or household use.

1.3 Details of the supplier of the safety data sheet

Company: Neo Biotech
 74, rue des Suisses
 92000 Nanterre - France

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 E-Mail: info@neo-biotech.com
 Internet: www.neo-biotech.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral (Category 4), H302
 Serious eye damage (Category 1), H318
 Acute aquatic toxicity (Category 1), H400
 Chronic aquatic toxicity (Category 1), H410

2.2 Label elements



Pictogram
 Signal word Danger
 Hazard statement(s)
 H302 Harmful if swallowed.
 H318 Causes serious eye damage.
 H410 Very toxic to aquatic life with long lasting effects.
 Precautionary statement(s)
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / eye protection / face protection.
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor / physician.
 P330 Rinse mouth.
 P391 Collect spillage.
 P501 Dispose of contents / container to an approved waste disposal plant.

2.3 Other hazards none

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Product Name: Fluoxetine hydrochloride
 Synonyms: *N*-Methyl-3-phenyl-3-(4-(trifluoromethyl)phenoxy)propylamine hydrochloride, Prozac, LY-110,140 hydrochloride
 Formula: C₁₇H₁₈F₃NO .HCl
 Molecular Weight: 345.79 g/mol
 CAS Number: [59333-67-4]
 EC Number: [260-101-2]
 (for batch specific information, please see CoA)

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a doctor and show this safety data sheet.

If inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

In case of skin contact

Immediately wash skin with copious amounts of soap and water for at least

15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

In case of eye contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

5.3 Precautions for fire-fighters

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

6. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities.

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.
 Recommended storage temperature: Store at RT.

7.3 Specific end uses

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place.

Ensure laboratory is equipped with a safety shower and eye wash station.

Personal protective equipment

Eye / face protection

Use appropriate safety glasses.

Skin protection

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

Body protection

Wear appropriate protective clothing.

Respiratory protection

If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	White solid
Vapor pressure	No data available
Odor	No data available
Vapor density	No data available
Odor threshold	No data available
Relative density	No data available
pH	No data available

Solubility(ies)	Soluble in water, DMSO
Melting / freezing point	No data available
Partition coefficient	No data available
Boiling point / range	No data available
Auto-ignition temperature	No data available
Flash point	No data available
Decomposition temperature	No data available
Evaporation rate	No data available
Viscosity	No data available
Flammability (solid, gas)	No data available
Explosive properties	No data available
Upper / lower flammability	No data available
Oxidising properties or explosive limits	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Heat, moisture.

10.5 Incompatible materials

Strong acids / alkalis, strong oxidizing / reducing agents.

10.6 Hazardous decomposition products

In combustion may emit toxic fumes. No known decomposition information.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD₅₀ Oral (rat) 452 mg/kg

Skin corrosion / irritation

Skin (rabbit)

Result: No skin irritation

Serious eye damage / irritation

Eyes (rabbit)

Result: Severe eye irritation

Respiratory or skin sensitization

Classification criteria are not met based on available data

Germ cell mutagenicity

Classification criteria are not met based on available data

Carcinogenicity

Classification criteria are not met based on available data

Reproductive toxicity

Reproductive toxicity – Oral (rabbit)

Maternal Effects: Other effects.

Reproductive toxicity – Oral (rat)

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

Developmental Toxicity – Subcutaneous (rat)

Specific Developmental Abnormalities:

Central nervous system.

Effects on Newborn: Growth statistics (e.g. reduced weight gain).

Developmental Toxicity – Oral (rat)

Specific Developmental Abnormalities:

Skin and skin appendages.

Developmental Toxicity – Oral (Human)

Specific Developmental Abnormalities:

Central nervous system.

Specific target organ toxicity

- single exposure

Classification criteria are not met based on available data

Specific target organ toxicity

- repeated exposure

Classification criteria are not met based on available data

Aspiration hazard

Classification criteria are not met based on available data

Symptoms / Routes of exposure

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion: There may be irritation of the throat.

Skin: There may be mild irritation at the site of contact.

Eyes: There may be irritation and redness.

Delayed / Immediate Effects: No known symptoms.

Additional Information

RTECS No: UI4050000

Exposure may cause irritation of eyes, mucous membranes, upper respiratory tract and skin, stomach-irregularities - based on human evidence. 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 fully investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

LC₅₀ - *Oncorhynchus mykiss* (rainbow trout) 1.57 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates

EC₅₀ - *Daphnia magna* (Water flea) 0.94 mg/l - 48 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Very toxic to aquatic life.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.

Contaminated packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

14.1 UN-Number

UN 3077

14.2 UN proper shipping name

Environmentally hazardous substance, solid, n.o.s. (Fluoxetine hydrochloride)

14.3 Transport hazard class(es)

Class: 9

14.4 Packaging group

Packing group: III

14.5 Environmental hazards

This product is classified as environmentally hazardous according to the UN Model Regulations and marine pollutant according to the IMDG Code.

14.6 Special precautions for users

No data available

14.7. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet