



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2021

Version number 1

Revision: 12.05.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### · 1.1 Product identifier

· **Product name:** Fluoxetine-d5 Hydrochloride

· **Part number:** TRC-F597102-1MG

· **CAS Number:**  
1173020-43-3

· **EC number:**  
693-885-3

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

· **Application of the substance / the mixture** Reference material for laboratory use only

#### · 1.3 Details of the supplier of the safety data sheet

##### · **Manufacturer/Supplier:**

LGC Limited  
Queens Road  
Teddington  
Middlesex TW11 0LY  
UNITED KINGDOM

Tel : +44 (0) 20 8943 7000  
Fax : +44 (0) 20 8943 2767  
eMail : gb@lgcstandards.com  
Web : www.lgcstandards.com

##### · **Further information obtainable from:**

Product safety department  
eMail : sds-request@lgcgroup.com

##### · 1.4 Emergency telephone number:

For Hazardous Materials or Dangerous Goods Incident  
Spill, Leak, Fire Exposure, or Accident  
Call CHEMTREC:  
USA & Canada 1-800-424-9300  
Rest of the world +1 703-741-5970

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

##### · **Classification according to Regulation (EC) No 1272/2008**



health hazard

Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Repr. 2	H361F-H362	Suspected of damaging fertility. May cause harm to breast-fed children.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.



corrosion

Eye Dam. 1	H318	Causes serious eye damage.
------------	------	----------------------------

(Contd. on page 2)

GB



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2021

Version number 1

Revision: 12.05.2021

**Product name: Fluoxetine-d5 Hydrochloride**

(Contd. from page 1)



environment

Aquatic Acute 1 H400

Very toxic to aquatic life.

Aquatic Chronic 1 H410

Very toxic to aquatic life with long lasting effects.



Acute Tox. 4

H302

Harmful if swallowed.

Skin Sens. 1

H317

May cause an allergic skin reaction.

STOT SE 3

H336

May cause drowsiness or dizziness.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS05



GHS07



GHS08



GHS09

#### Signal word Danger

#### Hazard statements

H302

Harmful if swallowed.

H318

Causes serious eye damage.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317

May cause an allergic skin reaction.

H361f-H362

Suspected of damaging fertility. May cause harm to breast-fed children.

H336

May cause drowsiness or dizziness.

H373

May cause damage to organs through prolonged or repeated exposure.

H410

Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P263

Avoid contact during pregnancy and while nursing.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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/doctor.

P405

Store locked up.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

(Contd. on page 3)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2021

Version number 1

Revision: 12.05.2021

**Product name: Fluoxetine-d5 Hydrochloride**· **vPvB:** Not applicable.

(Contd. from page 2)

### SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Description**  
1173020-43-3 Fluoxetine-d5 hydrochloride
- **Identification number(s)** None
- **EC number:** 693-885-3
- **RTECS:** -
- **Additional information:**  
For the wording of the listed hazard phrases refer to section 16.  
This product has been isotopically labelled with deuterium, a stable isotope of hydrogen.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.
- **After inhalation:**  
Supply fresh air and call a doctor.  
In case of unconsciousness place patient in recovery position for transport.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse mouth. Do not induce vomiting.  
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable for surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

GB

(Contd. on page 4)



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 12.05.2021

Version number 1

Revision: 12.05.2021

**Product name: Fluoxetine-d5 Hydrochloride**

(Contd. from page 3)

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Avoid formation of dust.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/extraction at the workplace.  
Remove dust thoroughly.  
Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:**  
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.  
Store only in the original receptacle unless other advice is given on the CoA.  
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
  - **Information about storage in one common storage facility:** Store away from foodstuffs.
  - **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
  - **Ingredients with limit values that require monitoring at the workplace:** Not required.
  - **Additional information:** Lists used were valid at the time of SDS preparation.
- **8.2 Exposure controls**
  - **Appropriate engineering controls** No further data; see item 7.
  - **Individual protection measures, such as personal protective equipment**
  - **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.

(Contd. on page 5)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2021

Version number 1

Revision: 12.05.2021

**Product name: Fluoxetine-d5 Hydrochloride**

(Contd. from page 4)

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

· **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

· **Material of gloves** Nitrile rubber, NBR

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eyeface protection**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Solid

· **Colour:**

Off white

· **Odour:**

Odourless

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Not determined.

· **Boiling point or initial boiling point and boiling range**

Not determined.

· **Flammability**

Not determined.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

(Contd. on page 6)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2021

Version number 1

Revision: 12.05.2021

**Product name: Fluoxetine-d5 Hydrochloride**

(Contd. from page 5)

· <b>Auto-ignition temperature:</b>	<i>Not determined.</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>pH</b>	<i>Not applicable.</i>
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	<i>Not applicable.</i>
· <b>Dynamic:</b>	<i>Not applicable.</i>
· <b>Solubility</b>	
· <b>water:</b>	<i>Not determined.</i>
· <b>Partition coefficient n-octanol/water (log value)</b>	<i>Not determined.</i>
· <b>Vapour pressure:</b>	<i>Not applicable.</i>
· <b>Density and/or relative density</b>	
· <b>Density:</b>	<i>Not determined.</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not applicable.</i>

**9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	<i>Solid</i>
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	<i>Not determined</i>
· <b>Explosive properties:</b>	<i>Not determined.</i>
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	<i>Not applicable.</i>

**Information with regard to physical hazard classes**

· <b>Explosives</b>	<i>Not applicable</i>
· <b>Flammable gases</b>	<i>Not applicable</i>
· <b>Aerosols</b>	<i>Not applicable</i>
· <b>Oxidising gases</b>	<i>Not applicable</i>
· <b>Gases under pressure</b>	<i>Not applicable</i>
· <b>Flammable liquids</b>	<i>Not applicable</i>
· <b>Flammable solids</b>	<i>Not applicable</i>
· <b>Self-reactive substances and mixtures</b>	<i>Not applicable</i>
· <b>Pyrophoric liquids</b>	<i>Not applicable</i>
· <b>Pyrophoric solids</b>	<i>Not applicable</i>
· <b>Self-heating substances and mixtures</b>	<i>Not applicable</i>
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	<i>Not applicable</i>
· <b>Oxidising liquids</b>	<i>Not applicable</i>
· <b>Oxidising solids</b>	<i>Not applicable</i>
· <b>Organic peroxides</b>	<i>Not applicable</i>
· <b>Corrosive to metals</b>	<i>Not applicable</i>
· <b>Desensitised explosives</b>	<i>Not applicable</i>

GB

(Contd. on page 7)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2021

Version number 1

Revision: 12.05.2021

**Product name: Fluoxetine-d5 Hydrochloride**

(Contd. from page 6)

### SECTION 10: Stability and reactivity

**· 10.1 Reactivity***Stable under normal conditions.**No further relevant information available.***· 10.2 Chemical stability** *Stable under normal conditions.***· Thermal decomposition / conditions to be avoided:***Formation of toxic gases is possible during heating or in case of fire.***· 10.3 Possibility of hazardous reactions** *No dangerous reactions known.***· 10.4 Conditions to avoid** *Heat.***· 10.5 Incompatible materials:** *Strong oxidizing agents.***· 10.6 Hazardous decomposition products:***Formation of toxic gases is possible during heating or in case of fire.*

### SECTION 11: Toxicological information

**· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****· Acute toxicity** *Harmful if swallowed.***· LD/LC50 values relevant for classification:****CAS: 56296-78-7 Fluoxetine Hydrochloride**

Oral LD50 452 mg/kg (rat)

**· Skin corrosion/irritation** *Based on available data, the classification criteria are not met.***· Serious eye damage/irritation** *Causes serious eye damage.***· Respiratory or skin sensitisation***May cause allergy or asthma symptoms or breathing difficulties if inhaled.**May cause an allergic skin reaction.***· Reproductive toxicity** *Suspected of damaging fertility. May cause harm to breast-fed children.***· STOT-single exposure** *May cause drowsiness or dizziness.***· STOT-repeated exposure** *May cause damage to organs through prolonged or repeated exposure.***· Additional toxicological information:****· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)***Repr. 2***· 11.2 Information on other hazards****· Endocrine disrupting properties** *Substance is not listed.*

### SECTION 12: Ecological information

**· 12.1 Toxicity****· Aquatic toxicity:****CAS: 56296-78-7 Fluoxetine Hydrochloride**

LC50/48 0.94 mg/l (daphnia)

LC50/96 h 1.57 mg/l (fish)

**· 12.2 Persistence and degradability** *No further relevant information available.*

(Contd. on page 8)





## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2021

Version number 1

Revision: 12.05.2021

**Product name: Fluoxetine-d5 Hydrochloride**

(Contd. from page 7)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms

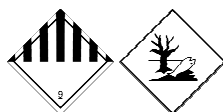
### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of in accordance with national regulations.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
  - **ADR, IMDG, IATA**
  - **ADR**
  - **IMDG, IATA**
  - **14.3 Transport hazard class(es)**
  - **ADR, IATA**
  - **Class**
- UN3077  
3077 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (Fluoxetine-d5  
hydrochloride)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S. (Fluoxetine-d5 hydrochloride)
- 9 Miscellaneous dangerous substances and articles.



(Contd. on page 9)





## Safety data sheet

according to 1907/2006/EC, Article 31


Printing date 12.05.2021

Version number 1

Revision: 12.05.2021

**Product name: Fluoxetine-d5 Hydrochloride**

(Contd. from page 8)

· <b>Label</b>	9
· <b>IMDG</b>	
	
· <b>Class</b>	9 Miscellaneous dangerous substances and articles.
· <b>Label</b>	9
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles.
· <b>Hazard identification number (Kemler code):</b>	90
· <b>EMS Number:</b>	F-A,S-F
· <b>Stowage Category</b>	A
· <b>Stowage Code</b>	SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	-
· <b>UN "Model Regulation":</b>	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FLUOXETINE-D5 HYDROCHLORIDE), 9, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **Seveso category E1** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

(Contd. on page 10)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2021

Version number 1

Revision: 12.05.2021

**Product name: Fluoxetine-d5 Hydrochloride**

(Contd. from page 9)

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

#### · Sources

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

- **Data compared to the previous version altered.** All sections have been updated.