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## Safety Data Sheet acc. to OSHA HCS

Printing date 05/20/2021

Revision date 05/20/2021

Product identifie	
Synonym LY110140	<u>uoxetine (hydrochloride)</u> fluoromethyl)phenoxy]-benzenepropanamine, monohydrochloride
This product is for	14418 <b>he substance / the mixture</b> or research use - Not for human or veterinary diagnostic or therapeutic use. It is he purchaser to determine suitability for other applications.
Details of the su Manufacturer/Su Cayman Chemica 1180 E. Ellsworth Ann Arbor, MI 48 USA	al Co. n Rd.
Emergency telep During normal op US/CANADA: 80	bening times: +1 (734) 971-3335
Hazard(e) ide	ntification
	ntification f the substance or mixture
Classification of	
Classification of	f the substance or mixture
Classification of GHS05 Eye Dam. 1	f the substance or mixture
GHS05 Eye Dam. 1	f the substance or mixture Corrosion H318 Causes serious eye damage.
Classification of GHS05 Eye Dam. 1 CHS09 Aquatic Acute 1	f the substance or mixture Corrosion H318 Causes serious eye damage. Environment
Classification of GHS05 Eye Dam. 1 CHS09 Aquatic Acute 1	f the substance or mixture Corrosion H318 Causes serious eye damage. Environment H400 Very toxic to aquatic life. 1 H410 Very toxic to aquatic life with long lasting effects.
Classification of GHS05 Eye Dam. 1 GHS09 Aquatic Acute 1 Aquatic Chronic	f the substance or mixture Corrosion H318 Causes serious eye damage. Environment H400 Very toxic to aquatic life. 1 H410 Very toxic to aquatic life with long lasting effects.
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Classification of GHS05 Eye Dam. 1 Current Chronic Aquatic Acute 1 Aquatic Chronic Current Chronic Acute Tox. 4 Label elements GHS label elements	f the substance or mixture Corrosion H318 Causes serious eye damage. Environment H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

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### Trade name: Fluoxetine (hydrochloride)

· Hazard pictogra	(Contd. from page 1)
GHS05 GHS0	7 GHS09
· Signal word Da	
<ul> <li>Hazard stateme</li> </ul>	
H302 Harmful if	
	rious eye damage.
H400 Very toxic	
	to aquatic life with long lasting effects.
<ul> <li>Precautionary s</li> <li>P264</li> </ul>	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear eye protection / face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
	38 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.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification s	
• NFPA ratings (s	
Fire	alth = 3 e = 0 activity = 0
• HMIS-ratings (s	-
FIRE 0 Fir	ealth = *3 re = 0 eactivity = 0
Other hazards	

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.

## **3** Composition/information on ingredients

## · Chemical characterization: Substances

- CAS No. Description
   56296-78-7 Fluoxetine (hydrochloride)
   Identification number(s)
- **EC number:** 260-101-2

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### **4 First-aid measures**

Description of first aid measures

#### · General information:

- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Immediately call a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

### **5 Fire-fighting measures**

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

## 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · 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.
- · Methods and material for containment and cleaning up: Use neutralizing agent. Dispose contaminated material as waste according to item 13.
- **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.
- Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling Thorough dedusting.

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- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.
- Store in accordance with information listed on the product insert.
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · 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. Avoid contact with the eves.
- Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· 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.

• Eye protection:



Tightly sealed goggles

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Information on basic physical and	chamical proportion
General Information	chemical properties
· Appearance:	
Form:	Crystalline
Color:	Not determined.
· Odor:	Characteristic
• Structural Formula	C17H18F3NO • HCl
Molecular Weight	345.8 g/mol
Odor threshold:	Not determined.
PH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not applicable.
Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not determined.
Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
SOLUBILITY	~0.2 mg/ml in PBS (pH 7.2); ~12.5 mg/ml in EtOH & DMSC ~16 mg/ml in DMF
• Other information	No further relevant information available.

## **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

• Possibility of hazardous reactions No dangerous reactions known.

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#### Trade name: Fluoxetine (hydrochloride)

- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- Hazardous decomposition products: carbon oxides, hydrogen chloride, hydrogen fluoride, nitrogen oxides

## **11 Toxicological information**

- · RTECS Number UI4050000
- · Information on toxicological effects
- · Acute toxicity:

## · LD/LC50 values that are relevant for classification:

Oral	LD50	452 mg/kg (rat)			
	TDLO	7,770 µg/kg (hmn)			
	Subcutaneous TDLO	1 mg/kg (mouse)			
	Intraperitoneal TDLO	10 mg/kg (rat)			
	Intraperitoneal LD50	100 mg/kg (mouse)			

#### Primary irritant effect:

- · on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 3 (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 bodies of water or drainage ditch undiluted or unneutralized.

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
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

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· Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, IMDG, IATA	UN3077
UN proper shipping name DOT, IATA IMDG	Environmentally hazardous substance, solid, n.o (Fluoxetine (hydrochloride)) ENVIRONMENTALLY HAZARDOUS SUBSTANC SOLID, N.O.S. (Fluoxetine (hydrochloride))
Transport hazard class(es)	
DOT, IMDG	
Class Label	9 Miscellaneous dangerous substances and articles 9
Class Label	9 Miscellaneous dangerous substances and articles 9
Packing group DOT, IMDG, IATA	3 X
Environmental hazards: Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances a articles
Transport in bulk according to Anne MARPOL73/78 and the IBC Code	x II of Not applicable.

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· Transport/Additional information:	
· IATA · Remarks:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FLUOXETINE (HYDROCHLORIDE)), 9, 3X

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS 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 SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. 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 SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 05/20/2021 / -
- · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances

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## Trade name: Fluoxetine (hydrochloride)

CAS: Chemical Abstracts Service (division of the American Chemical Society)	(Contd. from page 8)
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Acute Tox. 4: Acute toxicity – Category 4 Eve Dam. 1: Serious eve damage/eve irritation – Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Active 1. Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
* * Data compared to the previous version altered.	