

SAFETY DATA SHEET

1. Identification

Product identifier Citalopram Hydrobromide

Other means of identification

Catalog number 1134233

Chemical name 1-[3-(dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-5-

carbonitrilmonohydrobromide

Recommended use Specified quality tests and assay use only.

Recommended restrictions Not for use as a drug. Not for administration to humans or animals.

Manufacturer/Importer/Supplier/Distributor information

Company name U. S. Pharmacopeia
Address 12601 Twinbrook Parkway

Rockville MD

20852-1790

US

Telephone RS Technical Services 301-816-8129

Website www.usp.org

E-mail RSTECH@usp.org

Emergency phone number CHEMTREC within US & 1-800-424-9300

Canada

CHEMTREC outside US & +1 703-527-3887

Canada

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single

exposure

OSHA hazard(s) Not classified.

Label elements



Signal word Warning

Hazard statement Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory

irritation.

Precautionary statement

Prevention Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink

or smoke when using this product. Wear protective gloves. Wear eye/face protection.

Response If swallowed: Call a poison center/doctor/medical professional/ if you feel unwell. Rinse mouth. If

on skin: Wash with plenty of water/soap. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/medical professional. If in eyes: Rinse cautiously with water for several minutes.

Category 3 respiratory tract irritation

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container to an approved disposal site.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

3. Composition/information on ingredients

Substance

Material name: Citalopram Hydrobromide

Chemical name Common name and synonyms % **CAS** number Citalopram Hydrobromide 59729-32-7 100

4. First-aid measures

Inhalation Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs:

Get medical advice/attention.

Eye contact Rinse cautiously with water for several minutes. Get medical attention if irritation develops and

persists.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Irritation of eyes and mucous membranes.

Provide general supportive measures and treat symptomatically. Perform gastric lavage. For seizures, administer a benzodiazepine intravenously, followed by phenobarbital or propofol if the seizures recur. Monitor for hypotension, dysrhythmias, respiratory depression, and need for endotracheal intubation. Evaluate for hypoglycemia, electrolyte disturbances, hypoxia. For torsades de pointes in stable patients, treat with magnesium, isoproterenol, and/or atrial overdrive pacing. Forced diuresis is not effective. Hemodialysis and hemoperfusion are unlikely to be useful. Exchange transfusions are not effective.

difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic)

General information Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is

reactions must receive immediate medical attention.

5. Fire-fighting measures

Suitable extinguishing media Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and

materials.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment

and precautions for firefighters

Wear suitable protective equipment.

Fire-fighting

equipment/instructions

As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Wash spill site.

7. Handling and storage

Precautions for safe handling

As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Use of a designated area is recommended for handling of potent materials.

Conditions for safe storage, including any incompatibilities

Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

8. Exposure controls/personal protection

Exposure limit values

Industrial Use

Material	Туре	Value	
Citalopram Hydrobromide (CAS 59729-32-7)	TWA	10 micrograms/m3	

Material name: Citalopram Hydrobromide

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Biological limit values

Appropriate engineering

No biological exposure limits noted for the ingredient(s).

controls

Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials.

Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with sideshields are recommended. Face shields or goggles may be required if

splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

Skin protection

Other

Hand protection Chemically compatible gloves. For handling solutions, ensure that the glove material is protective

against the solvent being used. Use handling practices that minimize direct hand contact.

Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex

gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.

Respiratory protection Where respirators are deemed necessary to reduce or control occupational exposures, use

NIOSH-approved respiratory protection and have an effective respirator program in place

(applicable U.S. regulation OSHA 29 CFR 1910.134).

Thermal hazards Not available.

General hygiene considerations

Wash hands after handling and before eating. Keep away from food and drink. Handle in

accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance White to off-white crystalline powder.

Physical state Solid. **Form** Powder. Odor Weak odor. **Odor threshold** Not available.

5.5 - 6.5 (0.5% solution in water) pН Melting point/freezing point 359.6 - 370.4 °F (182 - 188 °C)

Initial boiling point and boiling

range

Not available.

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Not available. **Explosive limit - upper (%)** Not available.

Vapor pressure Not available. Vapor density Relative density Not available. Solubility in water Sparingly soluble. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

Other information

Chemical family Racemic, bicyclic phthalane derivative.

C20H21FN2O . HBr Molecular formula

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Material name: Citalopram Hydrobromide

Molecular weight 405.3

Solubility (other) Soluble in ethanol and in chloroform.

10. Stability and reactivity

ReactivityNo reactivity hazards known.
Chemical stability
Stable at normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid None known.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

NOx. F-. Br-. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

11. Toxicological information

Information on likely routes of exposure

Ingestion Harmful if swallowed.

InhalationMay cause irritation to the respiratory system.Skin contactDue to lack of data the classification is not possible.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical, and toxicological characteristics

Rash. Nausea. Vomiting. Fever. Increased urination. Dry mouth. Bitter or metallic taste. Sweating. Difficulty breathing. Tremor. Blurred vision. Difficulty sleeping. Agitation. Headache. Sexual dysfunction. Change in menstrual cycle. Dizziness. Lethargy. Decreased concentration.

Confusion. Seizures.

Delayed and immediate effects

of exposure

Fast heartbeat. Irregular heartbeat. Coma.

Medical conditions aggravated

by exposure

Treatment with or exposure to isocarboxazid. Mental disorders. Seizure disorders. Liver

impairment. Kidney impairment. Cardiovascular disorders.

Acute toxicity Harmful if swallowed.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitizationDue to lack of data the classification is not possible. **Skin sensitization**Due to lack of data the classification is not possible.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

A related material tested negative in mutagenicity tests in vivo. A related material gave mixed

results in vitro tests.

Carcinogenicity Based on available data, the classification criteria are not met.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Studies in animals administered a related material have given mixed results

Reproductive toxicityBased on available data, the classification criteria are not met.

Therapeutic use of SSRIs late in pregnancy may be associated with a transient syndrome of central nervous system, motor, respiratory, and gastrointestinal effects in the newborn. Studies in animals with a related material showed fetal toxicity along with malformations at

maternally toxic doses.

Specific target organ toxicity -

single exposure

Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

12. Ecological information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available.

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13. Disposal considerations

Disposal instructions This product, in its present state, when discarded or disposed of, is not a hazardous waste

according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA

criteria for hazardous waste. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Not available. Hazardous waste code Not regulated.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

15. Regulatory information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

One or more components are not listed on TSCA.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

chemical

No

SARA 311/312 Hazardous No

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug

Administration (FDA)

Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

Material name: Citalopram Hydrobromide

United States & Puerto Rico

No

16. Other information, including date of preparation or last revision

 Issue date
 03-28-2006

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 06-13-2013

Version # 02

Further information Not available.

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contained herein.

Revision Information This document has undergone significant changes and should be reviewed in its entirety.

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