



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

According to GB/T 16483, GB/T 17519; Adapts to GHS, IMDG, IATA Standards

Revision Date: 28 FEB 2026

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifiers

- Product Name: Citalopram Hydrobromide
- Product Number: CIT-20260228
- Brand: SIGALD
- CAS-No.: 59729-32-7
- Synonyms: (±)-1-[3-(Dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-5-carbonitrile hydrobromide

1.2 Supplier Details

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE
- Telephone: +86-021-50350029
- Fax: +86-021-50350029

1.3 Emergency Telephone

- Emergency Phone #: +86-021-50350029 (CHEMTREC)

1.4 Identified Uses & Uses Advised Against

- Identified Uses: Pharmaceutical raw material for antidepressant drug production (selective serotonin reuptake inhibitor)
- Uses Advised Against: Direct human consumption; non-pharmaceutical industrial use; unauthorized formulation; veterinary use without approval

SECTION 2: Hazards Identification

2.1 GHS Classification

- Acute toxicity, oral (Category 4); Acute toxicity, dermal (Category 5); Eye irritation (Category 2); Specific target organ toxicity (single exposure), central nervous system (Category 3)

2.2 GHS Label Elements

- Hazard Pictograms: (Exclamation mark)
- Signal Word: **Warning**
- Hazard Statements:
 - H302: Harmful if swallowed
 - H313: May be harmful in contact with skin
 - H319: Causes serious eye irritation
 - H335: May cause respiratory irritation; affects central nervous system
- Precautionary Statements:
 - P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 - P264: Wash hands thoroughly after handling



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- P270: Do not eat, drink or smoke when using this product
- P280: Wear protective gloves/eye protection/face protection
- P301+P312: If swallowed: Call a POISON CENTER/doctor 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

2.3 Physical and Chemical Hazards

- Non-combustible; no explosive hazards under normal storage and handling conditions

2.4 Health Hazards

- Acute: Drowsiness, dizziness, headache (CNS effects) if ingested/absorbed; eye redness/irritation; mild skin irritation in sensitive individuals
- Chronic: Prolonged exposure may cause CNS dysfunction; no known carcinogenic/mutagenic effects (IARC Class 3)

2.5 Environmental Hazards

- Aquatic toxicity (Category 3); may harm aquatic organisms; low biodegradability
- No additional hazards identified

SECTION 3: Composition/Information on Ingredients

- Substance: Pure chemical compound (100% Citalopram Hydrobromide)
- CAS-No.: 59729-32-7 | Formula: $C_{20}H_{21}FN_2O \cdot HBr$ | Molecular Weight: 405.30 g/mol
- Hazardous Ingredients: Citalopram Hydrobromide (100%, w/w) – meets GHS acute toxicity/irritation criteria

SECTION 4: First Aid Measures

4.1 First-Aid Measures

- Inhaled: Move to fresh air; rest in a comfortable breathing position. Call a doctor if dizziness, headache or respiratory discomfort persists.
- Skin Contact: Remove contaminated clothing; rinse skin with plenty of running water for 10-15 minutes. Apply mild moisturizer if irritation occurs.
- Eye Contact: Rinse eyes thoroughly with plenty of running water for 15-20 minutes (hold eyelids open). Remove contact lenses if present. **Immediate medical attention required** if irritation persists.
- Swallowed: Do not induce vomiting. Rinse mouth with water. Call a poison center/doctor immediately and provide the product label.

4.2 Most Important Symptoms

- CNS effects (drowsiness, dizziness, headache); eye/skin irritation; nausea/vomiting (if ingested in large amounts)
- Medical Attention: Symptomatic treatment; supportive care for CNS effects; no specific antidote available
- Notes to Physician: Inform physician of citalopram exposure; monitor vital signs and CNS function

SECTION 5: Firefighting Measures

5.1 Extinguishing Media: Water spray, foam, dry powder, carbon dioxide (CO₂)

5.2 Special Hazards from Combustion: May release toxic fumes (hydrogen bromide, nitrogen oxides,

fluorides, carbon monoxide) at high temperatures
5.3 Firefighter Advice: Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective gear; keep containers cool with water spray; avoid contact with combustion products

SECTION 6: Accidental Release Measures

6.1 Personal Precautions: Wear PPE (nitrile gloves, safety goggles, dust mask); ensure good ventilation; evacuate non-essential personnel from the spill area

6.2 Environmental Precautions: Prevent spillage from entering drains, sewers, rivers or groundwater; contain spilled material to avoid environmental contamination
6.3 Containment & Clean-Up

- Small Spill: Sweep up with inert absorbent (sand, vermiculite); place in a sealed hazardous waste container
 - Large Spill: Contain with dikes; transfer to sealed HDPE drums for professional disposal; do not wash spill into drains
- 6.4 Reference: See Section 13 for waste disposal guidelines

SECTION 7: Handling and Storage

7.1 Safe Handling

- Operate in a well-ventilated, dust-free area; avoid dust generation; use closed handling systems
- Do not eat/drink/smoke in the work area; wash hands/face thoroughly after handling
- Avoid contact with strong acids, strong bases and oxidizing agents to prevent degradation

7.2 Safe Storage

- Storage Conditions: Store in a cool, dry, dark warehouse (temperature 2-8°C); keep container tightly sealed; protect from light and moisture
- Incompatibilities: Strong acids, strong bases, oxidizing agents, heavy metal salts
- Storage Class (TRGS 510): 6.1 (Toxic Substances)
- Shelf Life: 24 months (unopened, under specified storage conditions)
- Segregation: Store separately from food, feed, non-hazardous materials and unauthorized personnel

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters: Occupational Exposure Limit (OEL) – TWA 0.3 mg/m³ (respirable dust); STEL 0.9 mg/m³ (China/EU)

8.2 Exposure Controls

- Engineering Controls: Local exhaust ventilation (LEV); dust collection systems; positive pressure ventilation
- Personal Protective Equipment (PPE):
 - Eye/Face: Chemical safety goggles + face shield (large-scale handling)
 - Skin: Nitrile rubber gloves (thickness ≥ 0.11 mm) + chemical-resistant lab coat
 - Respiratory: N95 dust mask (normal handling); PAPR (high-dust environments)
 - Hand: No bare hand contact; replace gloves if damaged/contaminated

SECTION 9: Physical and Chemical Properties

- Physical State: White to off-white crystalline powder

- Color: White/off-white | Odor: Practically odorless
- Melting Point: 183-189°C | Boiling Point: Decomposes before boiling (>300°C)
- Flammability: Non-combustible | Flash Point: Not applicable
- Autoignition Temperature: >400°C | Decomposition Temperature: >300°C
- pH Value: 4.0-6.0 (1% aqueous solution)
- Solubility: Soluble in water (46 g/L), ethanol, methanol; slightly soluble in chloroform
- Density (25°C): 1.38 g/cm³ (solid) | Vapor Pressure (25°C): <0.001 hPa
- Particle Size: 90% passing 100 mesh (pharmaceutical grade)
- Explosive Properties: Not explosive | Oxidizing Properties: None

SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Stable under recommended storage conditions (2-8°C, sealed, dark); decomposes at high temperature or strong acid/base conditions

10.2 Hazardous Reactions: No hazardous reactions under normal use; reacts with strong oxidizing agents to form toxic byproducts

10.3 Conditions to Avoid: High temperature (>25°C), direct sunlight, moisture, strong acids/bases, oxidizing agents

10.4 Incompatible Materials: Concentrated HCl, NaOH, hydrogen peroxide, potassium permanganate, heavy metal nitrates

10.5 Hazardous Decomposition Products: Hydrogen bromide (HBr), nitrogen oxides (NO_x), hydrogen fluoride (HF), carbon monoxide (CO)

SECTION 11: Toxicological Information

11.1 Toxicological Effects

- Acute Toxicity: Oral (Rat, LD₅₀) = 250 mg/kg; Dermal (Rabbit, LD₅₀) = >2000 mg/kg; Inhalation (Rat, LC₅₀) = >3 mg/m³ (4h)
- Skin Corrosion/Irritation: Mild irritation (Rabbit, 4h exposure); no corrosion
- Serious Eye Damage/Irritation: Category 2 (serious eye irritation, reversible in 72h)
- CNS Effects: Dose-dependent drowsiness, dizziness, headache; no convulsions at therapeutic doses
- Mutagenicity: Negative (Ames test, chromosome aberration test)
- Carcinogenicity: IARC Class 3 (not classifiable as to carcinogenicity to humans)
- Reproductive Toxicity: May cause fetal harm if exposed during pregnancy (animal studies); US FDA Category C

SECTION 12: Ecological Information

12.1 Toxicity: Zebrafish (LC₅₀) = 15 mg/L (96h); Daphnia (EC₅₀) = 10 mg/L (48h); Algae (EC₅₀) = 18 mg/L (72h)

12.2 Persistence & Degradability: Biodegradability <25% (28d, OECD 301); persistent in aquatic environments

12.3 Bioaccumulative Potential: Log K_{oc} = 2.8 (moderate bioaccumulation in aquatic organisms)

12.4 Mobility in Soil: Low mobility (adsorbs to soil organic matter); no leaching to groundwater under normal conditions

12.5 PBT/vPvB: Not classified as PBT/vPvB

SECTION 13: Disposal Considerations



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13.1 Waste Treatment

- Product Waste: Dispose as hazardous pharmaceutical waste; incinerate at licensed hazardous waste incineration facility ($\geq 1100^{\circ}\text{C}$) with gas treatment (to remove HBr/HF/ NO_x)
 - Packaging Waste: Rinse packaging with water/ethanol; dispose rinsate with product waste; recycle only if fully decontaminated
- ### 13.2 Disposal Regulations: Comply with China HW02 (medical waste) and Basel Convention; do not dispose in municipal waste

SECTION 14: Transport Information

14.1 UN Number: UN 2811 (Toxic solids, organic, n.o.s.)

14.2 UN Proper Shipping Name: Toxic solids, organic, n.o.s. (Citalopram Hydrobromide)

14.3 Transport Hazard Class: 6.1 (Toxic substances) | Packaging Group: III

14.4 Environmental Hazards: Marine Pollutant (No)

14.5 Special Transport Precautions

- Transport at $2-8^{\circ}\text{C}$ with insulated cold chain packaging; avoid direct sunlight and high temperature
- Use sealed, chemical-resistant packaging (HDPE drums with inner plastic liner); mark with GHS hazard labels and UN number
- Do not transport with food, feed, beverages or oxidizing agents; comply with IMDG/IATA/ADR for Class 6.1 goods

SECTION 15: Regulatory Information

15.1 National & International Regulations

- China: NMPA Controlled Pharmaceutical Raw Material; Pharmacopoeia of the PRC (2020); Hazardous Chemicals List (2015)
 - EU: REACH Registered; Ph. Eur. (EP 10.0) compliant; not in ECHA SVHC Candidate List
 - US: TSCA Listed; USP 45 compliant; FDA-regulated antidepressant API
- 15.2 Other: Comply with local pharmaceutical manufacturing, handling and waste disposal regulations

SECTION 16: Other Information

- This MSDS complies with GB/T 16483, GB/T 17519 and GHS Rev.9; based on current scientific and regulatory knowledge
- The supplier is not liable for damage caused by improper handling, storage, use or non-compliance with safety precautions
- For additional technical/regulatory information, contact the supplier's technical department