Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Clomipramine Hydrochloride USP
Commercial Name Not available
Product Use Not available
Restrictions On Use Not available

Product Code 30-4511

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

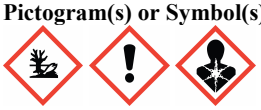
Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Acute toxicity, Oral (Category 4) Specific target organ toxicity, single exposure (Category 3 narcotic effects)

Signal Word WARNING

Hazard Statement(s) Harmful if swallowed. May cause drowsiness or dizziness

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.
Response IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal Dispose of contents/container in accordance with local/regional.national/international regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Clomipramine Hydrochloride
% By Weight <=100
CAS# 17321-77-6
Molecular Weight 351.31 g/mol
Chemical Formula C19H23CIN2 - HCl
Synonym(s) 5H-Dibenz[b,f]azepine-5-propanamine, 3-chloro-10,11-dihydro-N,N-dimethyl-, monohydrochloride; 3-Chloro-5-[3-(dimethylamino)propyl]-10,11-dihydro-5H-dibenz[b,f]azepine monohydrochloride

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Clomipramine Hydrochloride	17321-77-6	<=100	N/A	N/A

Section 4: First-Aid Measures

Inhalation If inhaled, remove to fresh air, if breathing becomes difficult, call a physician. Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waist and IF breathing is difficult, administer oxygen. If the victim is not breathing, perform Artifical respiration. Obtain immediate medical attention.

Skin Contact Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.May cause sensitization by skin contact

Eye Contact Immediately flush eyes with running water for at least 15 minutes, keeping eye lids open. COLD water may be used. Seek medical attention.

Ingestion Induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested: the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Have conscious person drink several glasses of water or milk. Seek immediately medical attention.

Symptoms/Effects

Acute Not available

Delayed Not available

Immediate Medical Attention

Not available.

Section 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.

Products of Combustion

No unusual fire or explosion hazards noted

Firefighters Special Equipment and Precautions

Wear suitable protective equipment. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Cool containers exposed to flames with water until well after the fire is out.

Section 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. Wear appropriate personal protective equipment. Methods and materials for containment and cleaning up: Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Ensure waste is collected and contained. Clean thoroughly. Clean with water. Protective clothing pictograms in case of large spill and/or high exposure levels: Protective clothing in case of large spill Hooded full suit, Tyvek coveralls or equivalent, air-purifying respirator with particulate cartridge P100 (HEPA), boots, and gloves.

Section 7: Handling and Storage

Precautions: Use with adequate dust control. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid inhalation and contact with skin and eyes. Wash thoroughly after handling. Dispose as pharmaceutical waste 261N. Incompatibility: Strong oxidizing agents, strong acids. Storage condition: Store in a tight, light-resistant container at 25°C, with excursions permitted between 15°C and 30°C.

Section 8: Exposure Controls/Personal Protection

Exposure Limits Clomiprami ne Hydrochloride TWA 0.2 mg/m^3

Engineering Controls	Exposure to this material can be controlled in many ways. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. This general information can be used to help develop specific control measures. Ensure that control systems are properly designed and maintained. Comply with occupational, environmental, fire, and other applicable regulations. Engineering methods to control hazardous conditions are preferred. Methods include mechanical (local exhaust) ventilation, process or personnel enclosure, and control of process conditions. Administrative controls and personal protective equipment may also be required. Supply sufficient replacement air to make up for air removed by the exhaust system.
Personal Protection	Personal protection: Splash goggles. Full suit with hood, or disposable/washable cover all. Half-face air-purifying respirator with particulate cartridge P100 (HEPA) for quantities less than 1 g. Powered air-purifying respirator (PAPR) with particulate cartridge P100 (HEPA) for quantities greater than 1 g. Boots rubber gloves (Impervious). Chemical fume hood. Personal protective equipment: If engineering controls and work practices are not effective in controlling exposure to this material, wear suitable personal protective equipment, including approved respiratory protection. Have appropriate equipment available for use in emergencies such as spills or fire. If respiratory protection is required, institute a complete respiratory protection program, including selection, fit testing, training, maintenance, and inspection. Refer to CSA Standard Z94.4-M1982, Selection, Care and Use of Respirators, or equivalent local codes and standards. Respiratory protection guidelines: Where barrier technology or a high degree of process containment exists, respiratory protection may not be required. When working with quantities less than 1 kg and in the absence of appropriate local exhaust ventilation (LEV) or other containment, a half-face air-purifying respirator with particulate cartridge P100 (HEPA) and safety goggles is adequate. When working with quantities greater than 1 kg and in the absence of local exhaust ventilation (LEV) or other containment, a powered air-purifying respirator (PAPR) with particulate cartridge P100 (HEPA) and helmet/hooded supplied-air respirator is recommended. The specific respirator selected must be based on contamination levels found in the workplace, the specific operation, and must not exceed the working limits of the respirator. Note: Barrier technology utilizes physical containment facilities and methods to prevent human contact with a chemical or biological material with hazardous properties. Examples include glove boxes, flexible isolators, robotics, or remote operation. Eye/Face Protection: Safety goggles. Skin Protection: Impervious gloves (e.g., natural rubber, butyl rubber, nitrile, neoprene, or PVC). Azico Biophore standards require that all latex gloves should be medical-grade hypoallergenic gloves or, for individuals with Type I hypersensitive reactions to latex, nitrile gloves are recommended. Hooded full impervious suit and boots (e.g. Shield 2 or Tyvek brands and/or equivalent resistant protective clothing). Have a safety shower and eye wash fountain readily available in the immediate work area. Resistance of Materials for Protective Clothing: Guidelines: Good: Natural, Butyl or Styrene-butadiene rubber (SBR), Neoprene, Nitrile, Polyvinyl chloride (PVC), Polyurethane, Nitrile+PVC, Neoprene + SBR, Neoprene + natural rubber, SBR/ ne oprene Note: Resistance of specific materials can vary from product to product. Evaluate resistance under conditions of use and maintain clothing carefully.

Section 9: Physical and Chemical Properties

Appearance	Solid. White or slightly yellow, crystalline powder, slightly hygroscopic
Odor	Not available.
Odor Threshold	Not available.

Melting Point	191 - 195°C	**pH**	3.5 - 5
Freezing Point	Not available.	**Vapor Pressure**	<0.0000001 kPa at 25°C
Boiling Point/Range	Not available.	**Vapor Density**	Not available.
Decomposition temperature	Not available.	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	Not available.	**Evaporation Rate**	Not available.
Flash Point	Not available.	**Autoignition temperature**	662°F (350°C)
Flammability	Not available.	**Flammability or Explosive Limits:**	
		Lower	Not available.
		Upper	Not available.

Solubility(ies)	Freely soluble in water, freely soluble, in Methylene chloride and soluble in alcohol.
Other	Log Pow: 5.2 at 20°C

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	The product is stable
Hazardous Polymerization	Not available
Conditions to Avoid	Not available.
Incompatible Materials	Not available.
Hazardous Decomposition Products	When heated to decomposition, emits dangerous fumes.

Section 11: Toxicological Information

RTECS Not available.

Acute Toxicity
Clomipramine Hydrochloride Species: Oral LD50 (rat) 914 mg/kg Species: Oral LD50 (mouse) 470 mg/kg Species:ATE (oral) 500,000 mg/kg

Skin Corrosion/Irritation
Due to lack of data the classification is not possible.

Serious Eye Damage/Irritation
Due to lack of data the classification is not possible.

Respiratory or Skin Sensitization
Due to lack of data the classification is not possible.

Germ Cell Mutagenicity
Due to lack of data the classification is not possible.

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

Reproductive Toxicity
Classification criteria are not met.

Routes of Entry
Eye contact, skin contact, inhalation, ingestion

Symptoms Related to Exposure
Specific target organ toxicity - single exposure: Narcotic effects

Potential Health Effects
Classification criteria are not met.

Target Organ(s) Not available

Section 12: Ecological Information

Ecotoxicity
Very toxic to aquatic life. Clomipramine Hydrochloride Fish LC50 Danio rerio 0.43 mg/l, 96 hours

Persistance and Degradability
Not available.

Bioaccumulative Potential
Not available

Mobility in Soil
Not available.

Other Adverse Effects
Not available.

Section 13: Disposal Considerations

Waste Disposal
Collect in sealed containers and place in an appropriately labeled pharmaceutical solid waste Class 261N container according to internal and external standards and procedures. Follow all applicable safe work procedures and federal, provincial, and local regulations for disposal. Use only licensed disposal and waste hauling companies.

Disposal of Container
Not available.

Other Considerations
Not available.

Section 14: Transport Information

DOT Classification
DOT/IATA UN number: UN3077 Environmentally hazardous substance, solid, n.o.s. Transport hazardous class: 9 DOT;IATA Packing group: III

Section 15: Regulatory Information

Regulations
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: No SARA 311/312 Hazardous Chemical: No Other Federal RegulationsSafe 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. EU Regulations No REACH Annex XVII restrictions.

Other
Not available.

Section 16: Other Information

Not available.