

Section 1: Identification

Product Name	Amitriptyline Hydrochloride
Commercial Name	Amitriptyline Hydrochloride
Product Use	Not available
Restrictions On Use	Not available
Product Code	30-1603
Company	In case of emergency contact: CHEMTREC (24hr) 1-800-424-9300
	PCCA 9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760

Section 2: Hazard(s) Identification

OSHA Haz Com:	Acute Tox. 3 H301-Toxic if swallowed. Eye Irrit. 2 H319-Causes serious eye irritation. Repr. 2
CFR 1910.1200	H361d-Suspected of damaging the unborn child. Aquatic Acute 1 H400-Very toxic to aquatic life. Aquatic Chronic 1 H410-Very toxic to aquatic life with long lasting effects.
Signal Word	DANGER
Hazard Statement(s)	Toxic if swallowed., in contact with skin or if inhaled. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention	P201-Obtain special instructions before use. P273-Avoid release to the environment. P280-Wear protective gloves / protective clothing / eye protection / face protection.
Response	P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P308+P313-IF exposed or concerned: Get medical advice / attention
Storage	Not available
Disposal	Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture	Substance
Components	Amitriptyline hydrochloride
% By Weight	100
CAS#	549-18-8
Molecular Weight	313.87 g/mole
Chemical Formula	C20H24CIN
Synonym(s)	3-(10,11-Dihydro-5H-dibenzo[a,d]cyclohepten-5-ylidene-N,N-dimethyl-1-ropanamine hydrochloride

Mixtures	Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
	Amitriptyline hydrochloride	549-18-8	100	Not available.	ORAL (LD50):Acute: 140mg/kg [Mouse].240 mg/kg [Rat].

Section 4: First-Aid Measures

Inhalation	Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms. Respiratory arrest - Artificial respiration apparatus necessary.
Skin Contact	Wash thoroughly using copious water - remove contaminated clothing immediately and call a doctor. Have Data Sheet available.
Eye Contact	Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
Ingestion	Rinse the mouth thoroughly with water. Give copious water to drink - consult doctor immediately. Immediate admittance to a hospital. Keep Data Sheet available.
Symptoms/Effects	
Acute	If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.
Delayed	If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Immediate Medical Attention

Symptomatic treatment. Decontamination Elementary aid

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Water jet spray/foam/CO2/dry extinguisher

Unsuitable Extinguishing Media

High volume water jet

Products of Combustion

Oxides of carbon Oxides of nitrogen Hydrogen chloride

Firefighters Special Equipment and Precautions

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

Section 6: Accidental Release Measures

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition. Avoid dust formation with solid or powder products. Leave the danger zone if possible, use existing emergency plans if necessary. Do not take any measures that are associated with personal risk or have not been sufficiently trained. Keep unprotected persons away. Ensure sufficient supply of air. Avoid build up of dust. Remove possible causes of ignition - do not smoke. Avoid inhalation, and contact with eyes or skin. For emergency responders: See section 8 for suitable protective equipment and material specifications. Environmental precautions: If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities. Methods and material for containment and cleaning up: Pick up mechanically and dispose of according to Section 13. Collect spilled material with a dust-trapping sweeping agent or a suitable vacuum cleaner. As a precaution, douse dust with water.

Section 7: Handling and Storage

General recommendations: Ensure good ventilation. Avoid build up of dust. If applicable, suction measures at the workstation or on the processing machine necessary. Remove possible causes of ignition - do not smoke. Take measures against electrostatic charging, if appropriate. Avoid contact with eyes or skin. Pregnant women should avoid contact with this product. Handle and open container with care. Separate storage of protective clothing. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions. Notes on general hygiene measures at the workplace: General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed. Conditions for safe storage, including any incompatibilities: Keep locked away. Keep out of access to unauthorised individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Do not store with oxidizing agents. Store in a well ventilated place. Store in a dry place. Store cool.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here
Personal Protection	General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed. Eye/face protection: Tight fitting protective goggles with side protection (EN 166). Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). If applicable Protective gloves made of butyl (EN ISO 374). Protective Neoprene® / polychloroprene gloves (EN ISO 374). Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,43 Permeation time (penetration time) in minutes: 480 Protective hand cream recommended. The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments). Respiratory protection: If air supply is not sufficient, wear protective breathing apparatus. Filter P2 (EN 143), code colour white Observe wearing time limitations for respiratory protection equipment. Thermal hazards: Not applicable Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.



Safety Data Sheet

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

Amitriptyline Hydrochloride

30-1603

Section 9: Physical and Chemical Properties

Appearance	Solid. (Solid crystalline powder.) Color: White.		
Odor	Not available.		
Odor Threshold	Not available		
Melting Point	198-200 °C	pH	5,0-6,0 (10 g/l)
Freezing Point	Not available	Vapor Pressure	Not applicable.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available	Viscosity	Not available.
Partition Coefficient: n-octanol/water	5,0	Evaporation Rate	Not available
Flash Point	Not available.	Autoignition temperature	Not available
Flammability	Combustible	Flammability or Explosive Limits:	
		Lower	Not available
		Upper	Not available
Solubility(ies)	Soluble		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable with proper storage and handling
Hazardous Polymerization	No dangerous reactions are known.
Conditions to Avoid	Not available
Incompatible Materials	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products	No decomposition when used as directed.

Section 11: Toxicological Information

RTECS HO9450000

Acute Toxicity

Acute toxicity, by oral route: LD₅₀ 19 mg/kg Human being Acute toxicity, by oral route: LD₅₀ 240 mg/kg Rat

Skin Corrosion/Irritation

Not available

Serious Eye Damage/Irritation

Eye Irrit. 2

Respiratory or Skin Sensitization

Not available

Germ Cell Mutagenicity

Not available

Carcinogenicity

Not available

Reproductive Toxicity

Not available

Routes of Entry

Not available.

Symptoms Related to Exposure

Not available

Potential Health Effects

Not available.

Target Organ(s) Not available

Section 12: Ecological Information**Ecotoxicity**

Toxicity to fish: LC50 96h 0,25 mg/l Oncorhynchus mykiss OECD 203 (Fish, Acute Toxicity Test)

Persistence and Degradability

Not readily biodegradable Toxicity to daphnia: EC50 24h 0,39 mg/l Daphnia magna Toxicity to algae: ErC50 72h 0,16 mg/l Selenastrum capricornutum

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Adverse Effects

Not available

Section 13: Disposal Considerations**Waste Disposal**

Sewage disposal shall be discouraged. Pay attention to local and national official regulations.

Disposal of Container

Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Other Considerations

Not found

Section 14: Transport Information**DOT Classification**

UN proper shipping name: UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (AMITRIPTYLINE HYDROCHLORIDE) 14.3. Transport hazard class(es): 6.1 14.4. Packing group: III Classification code: T2 LQ: 5 kg 14.5. Environmental hazards: environmentally hazardous

Section 15: Regulatory Information**Regulations**

Observe restrictions: Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations. Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.): Hazard categories Notes to Annex I Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements

Other

Not available.

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Vasudha Pharma Chem Ltd be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Vasudha Pharma Chem Ltd has been advised of the possibility of such damages.