

**Section 1. Product and Company Identification**

Product Name	Amitriptyline Hydrochloride
Product ID	A5235
Chemical Name (Synonyms)	3-(10,11-Dihydro-5H-dibenzo[a,d]cycloheptene-5-ylidene)-N,N-dimethyl-1-propanamine hydrochloride
Supplier	LKT Laboratories, Inc 545 Phalen Blvd. St. Paul, MN 55130 USA Ph: 651-644-8424 Fax: 651-644-8357 www.lktlabs.com - getinfo@lktlabs.com
Emergency Phone #	1-800-424-9300

Section 2. Hazards Identification

GHS Classification	Acute toxicity, Oral (Category 3) H301 Reproductive toxicity (Category 2) H361
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GHS Label elements including precautionary statements**Pictogram****Signal word** Danger**Hazard and precautionary statements****Hazard statements**H301 - Toxic if swallowed.
H361 - Suspected of damaging fertility or the unborn child.**Precautionary statements**P201 - Obtain special instruction before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P281 - Use personal protective equipment as required.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.
P321 - specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P405 - Store locked up.
P501 - Dispose of contents/ container to an approved waste disposal plant.**HMIS Classification** Health hazard: 2
Chronic health hazard: *
Flammability: 0
Physical hazard: 0**NFPA Rating** Health hazard: 2
Fire hazard: 0
Reactivity hazard: 0**Potential Health Effects** Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.
Skin - May be harmful if absorbed through skin. May cause skin irritation.
Eyes - May cause eye irritation.

Ingestion - Acute toxicity. Toxic if swallowed.
Reproductive toxicity - Suspected of damaging fertility or the unborn child.

Section 3. Composition/Information on Ingredients

Substances	Ingredient: Title Compound	Percent: 100		
Formula	C ₂₀ H ₂₃ N · HCl		Formula Wt.	313.86
CAS No.	549-18-8		EC No.	208-964-6

Section 4. First Aid Measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Eye Contact	Flush eyes with water as a precaution.
Skin Contact	Wash off with soap and plenty of water.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

Flash Point	Not available.
Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Firefighting Procedures	Wear self-contained breathing apparatus for firefighting if necessary.
Unusual Fire Hazards	Carbon oxides, nitrogen oxides (NO _x), hydrogen chloride gas.

Section 6. Accidental Release Measures

Personal Precautions	Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleanup	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Ambient
Hazardous Decomposition Products	Not available.
Other Remarks	

Section 8. Exposure Controls/Personal Protection

Personal protective equipment

EXPOSURE CONTROLS

Contains no substances with occupational exposure limit values. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

PERSONAL PROTECTION

Eye/face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full and splash contact - Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min., Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M).

Body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Physical State	Solid.	Color	White to off-white powder.
Boiling Point	398.2C	Volatility	Not available.
Melting Point	195-197C	Density	Not available.
Solubility	Soluble in water, ethanol, DMSO	pH	5.0 - 6.0 at 10 g/l
Flash Point	Not available.	Ignition temperature	Not available.
Lower explosion limit	Not available.	Autoignition temperature	Not available.
Upper explosion limit	Not available.	Vapor pressure	Not available.
Water solubility	Not available.	Odor	Not available.
Partition coefficient: n-octanol/water	log Pow: 5.0	Odor Threshold	Not available.
Relative vapor density	Not available.	Evaporation rate	Not available.

Section 10. Stability and Reactivity

Stability Stable under recommended storage conditions.

Materials To Avoid Strong oxidizing agents.

Hazardous Decomposition Products Not available.

Possibility of hazardous reactions Not available.

Conditions to avoid Not available.

Section 11. Toxicological Information

Oral LD50 Rat - 240 mg/kg Remarks: Behavioral: Convulsions or effect on seizure threshold. Behavioral:Ataxia. Lungs, thorax or Respiration:Dyspnea.

Skin corrosion/irritation Not available.

Inhalation LC50 Not available.

Serious eye damage/irritation Eyes - rabbit Result: Irritating to eyes.

Dermal LD50 Not available.

Respiratory or skin sensitization Not available.

Other information on acute toxicity Not available.

Germ cell mutagenicity Not available.

Reproductive Toxicity May cause congenital malformation in the fetus.

Aspiration Hazard Not available.

Specific organ toxicity single exposure (GHS) Not available.

Synergistic effects Not available.

Specific organ toxicity repeated exposure (GHS) Not available.

Additional Information RTECS: HO9450000

Teratogenicity Not available.

Signs and symptoms of exposure Not available.

Potential Health Effects Inhalation - May be harmful if inhaled. May cause respiratory tract irritation. Skin - May be harmful if absorbed through skin. May cause skin irritation. Eyes - May cause eye irritation. Ingestion - Acute toxicity. Toxic if swallowed. Reproductive toxicity - Suspected of damaging fertility or the unborn child.

Carcinogenicity **IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity Toxicity to fish - LC50 - Oncorhynchus mykiss (rainbow trout) - 0.25 mg/l - 96 h(OECD Test Guideline 203). Toxicity to daphnia and other aquatic invertebrates - EC50 - Daphnia magna (Water flea) - 0.39 mg/l - 24 h. Toxicity to algae - ErC50 - Selenastrum

Mobility in soil Not available.

PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not

	capricornutum (gene algae) - 0.16 mg/l - 72 h.	conducted.
Persistence and degradability	According to the results of tests of biodegradability this product is not readily biodegradable.	Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.
Bioaccumulative potential	Not available.	

Section 13. Disposal Considerations

Waste Disposal	Dispose of material according to all federal, state and local regulations. Offer material to a licensed, professional waste disposal company to dispose of as unused product. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
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Section 14. Transport Information

DOT (US)	UN number: 2811 Class: 6.1 Packing Group: III Proper shipping name: Toxic solids, organic, n.o.s. (Amitriptyline hydrochloride) Marine pollutant: No Poison Inhalation Hazard: No
IATA	UN number: 2811 Class: 6.1 Packing Group: III Proper shipping name: Toxic solids, organic, n.o.s. (Amitriptyline hydrochloride)
IMDG	UN number: 2811 Class: 6.1 Packing Group: III Proper shipping name: TOXIC SOLIDS, ORGANIC, N.O.S. (Amitriptyline hydrochloride) Marine pollutant: No
Further Information	

Section 15. Regulatory Information

Reach No.	
SARA 302 Components	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Components	Acute health hazard.
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components	Amitriptyline Hydrochloride CAS #: 549-18-8 Revision Date:
New Jersey Right To Know Components	Amitriptyline Hydrochloride CAS #: 549-18-8 Revision Date:
California Prop 65 Components	This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Section 16. Other Information

Other information	The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.
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For emergencies in the USA, call
CHEMTREC 800-424-9300