


Section 1: Identification

Common Name/Trade Name	SELEGILINE HCL USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	Benzeneethanamine, N-alpha-dimethyl-N-2-propynyl-hydrochloridem, (R)-	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Acute tox. 4, Aquatic Chronic 2	
Signal Word	Warning	
Hazard Statement(s)	H302 H332 H410	Harmful if swallowed Harmful if inhaled Very toxic to aquatic life with long lasting effects
Pictogram(s)		
Precautionary Statement(s)	P261 P273 P301+P312 P304+P340 P402+P404 P501	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. Store in a dry place. Store in a closed container. Dispose of contents/container to an approved waste disposal plant.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	(R)-(-)-1-phenyl-2[N-(2-propionyl)-N-methylamino]-propane hydrochloride
Common Name	Selegiline hydrochloride
CAS Number	14611-52-0
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
If Inhaled	Interrupt an exposition. Take to the fresh air. Prevent victim from a cold. Seek for medical help in case of coughing, breathlessness or other symptoms persist.
In Case of Skin Contact	Remove contaminated clothing. The afflicted surface rinse with lot of (if possible a lukewarm) water. If there is no lesion use soap or cream. If any irritation persists seek medical advice.
In Case of Eye Contact	Immediately, wash up thoroughly with water for minimum 10 minutes. Remove contact lenses. Open eye-lids even though using force. Seek for medical help immediately.
If Swallowed	Wash out mouth thoroughly (if a victim is conscious). Do not induce vomiting it can cause more hazard than the substance itself. If possible administer about 5 crushed tablets of activated charcoal suspended in water. Seek for medical help.
Most Important Symptoms and Effects	Selegiline hydrochloride is used in manufacture of medicines. At high dose (inhalation, swallowing, etc.) adverse effect of over dosage can arise, i.e. disorder of CNS (agitation, confusion) and cardiovascular system, alternatively adverse effects within usage of Selegiline hydrochloride head aches, pain in stomach, nausea, dry mouth, skin reaction. Temporary sleep disorder, dizziness, or further effect stated in the chapter No. 11 can occur.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Suitable extinguishing media : Foam, dry powder, water fog, carbon dioxide. Extinguishing media which must not be used for safety reasons : not known
Special Hazards Arising From the Substance/Mixture	Formation of toxic and corrosive gases is possible during heating or in case of fire (CO, CO ₂ , nitrogen oxides, hydrogen chloride).
Special PPE and/or Precautions for Firefighters	A self-contained breathing apparatus and full protective clothing should be worn when fighting the fire.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Use protective means : aspirator against dust, protective gloves, protective clothing, work shoes, in case of big leakage use protective mask with filtered air supply.
Methods and Materials Used for Containment	Do not allow the substance to reach soil, waters and sewage systems. Perform actions against entering washing water into soil, waters and sewage systems. Collect the material into original or similar containers, close and label. Dispose as a dangerous waste. Rinse the residua with water : prevent entering into sewerage.
Cleanup Procedures	Collect the material into original or similar containers, close and label. Dispose as a dangerous waste. Rinse the residua with water : prevent entering into sewerage.

Section 7: Handling and Storage

Precautions for Safe Handling	Use protective means. Prevent to dispersion of powder. Do not eat, drink, and fume in a working place, Take off protective clothing and means before entering into a dinning-room.
Conditions for Safe Storage	Preserve in tightly closed original containers on dry and well ventilated place up to 25 °C. Protect form light.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Not determined.
Appropriate Engineering Controls	Ensure adequate ventilation. Prevent rising of dust. Use prescribed protective means.
PPE - Eye/Face Protection	protective mask with combined filter of protective glasses
PPE - Skin Protection	protective gloves (Nitrile, Butyl, PVC)
PPE - Body Protection	protective clothing, work shoes, kerchief
PPE - Respiratory Protection	protective mask with combined filter or an aspirator

Section 9: Physical and Chemical Properties

Appearance	white to off white crystalline substance
Upper/Lower Flammability or Explosive Limits	not determined
Odor	odourless
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	not applicable
pH	pH (c=5, water) : 3.5 - 4.5
Relative Density	not applicable
Melting Point/Freezing Point	Melting point/freezing point : 142 - 147 °C
Solubility	Solubility : water : freely soluble in other solvents : soluble in ethanol, methanol, chloroform, 0.1 M HCl
Initial Boiling Point and Boiling Range	not applicable
Flash Point	Not determined
Evaporation Rate	Not applicable.
Flammability (Solid, Gas)	combustible organic substance
Partition Coefficient	No data available
Auto-Ignition Temperature	not determined
Decomposition Temperature	not determined
Viscosity	not applicable

Section 10: Stability and Reactivity

Reactivity	No information about dangerous reactivity are known.
Chemical Stability	Stable under storage conditions
Possibility of Hazardous Reactions	none
Conditions to Avoid	not known
Incompatible Materials	strong oxidants
Hazardous Decomposition Products	In event of fire carbon oxide, carbon dioxide, nitrogen oxides and hydrogen chloride may develop.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 oral in rat : 385 mg/kg LD50 not stated mice: 121 mg/g LD50 intravenously in rat : 81 mg/kg TLD0 oral in rat: 1904 mg/kg LD50 subcutaneously in rat: 280 mg/kg
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	No data available
Skin Corrosion/Irritation	Information not found.
Serious Eye Damage/Irritation	Information not found.
Respiratory or Skin Sensitization	Information not found.
Germ Cell Mutagenicity	Information not found.
Carcinogenicity IARC	No data available.
Carcinogenicity ACGIH	No data available.
Carcinogenicity NTP	No data available.
Carcinogenicity OSHA	No data available.
Reproductive Toxicity	Prenatal and postnatal studies in rat at 4, 16 and 64 mg/kg/day (4, 15 and 62 multiple of therapeutic dose for human), the elevated number of dead neonates, lower number of cubs, lower number of survival cubs, lower weight at birth and during lactic period was found at two higher doses. As no one of the newly born cub survive more than the 4th day the postnatal development cannot be evaluated. At reproduction studies in rabbit at 5, 25 and 50 mg/kg/day (10, 48 and 95 multiple of therapeutic dose for human), no teratogenic effects were found. At the highest dose, a lower number of cubs was observed. The results of these tests are not sufficient for classification of the substance as toxic for reproduction.
Specific Target Organ Toxicity - Single Exposure	Information not found.
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	LC50 (fish 96h): 9.9 mg/l; EC50 (daphnies-48h): 33.4 mg/l; IC50 (algae-72h): 14.7 mg/l
Persistence and Degradability	Partially biodegradable (30 - 40 % in 28 days).
Bio-accumulative Potential	Partition coefficient n-octanol/water not determined. Further information not found.
Mobility in Soil	Information not found.
Other Adverse Effects	Information not found.

Section 13: Disposal Considerations

Waste Treatment Methods Product	The product may be incinerated in a suitable incineration plant in accordance with local regulations. The packages can be reused after thorough cleaning or handled (contaminated) in the same way as the substance itself.
Waste Treatment Methods Packaging	LDPE bag inserted into a paper drum.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	3077
UN Proper Shipping Name	Environmentally hazardous substance, solid, N.O.S. (selegiline hydrochloride)
Transport Hazard Class(es)	9
Packaging Group	III
Environmental Hazards	Environmentally hazardous substance.

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture (specific for EU) The substance is a pharmaceutical ingredient and is liable to regulations on medicines. The substance is not mentioned in the list of substances in Directive of European Council No. 793/93 on evaluation and control of risks of existing chemical substances. This substance is not classified in Appendix 1 Directive of European Council No. 67/548/EEC. This substance is not restricted by any prescript.

Section 16: Other Information

Additional Information	N/A
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