



## Safety Data Sheet

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

Selegiline Hydrochloride USP

30-2911

### Section 1: Identification

**Product Name** Selegiline Hydrochloride USP

**Commercial Name** Eldepryl, Jumex

**Product Use** Not available

**Restrictions On Use** Not available

**Product Code** 30-2911

**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:** Acute tox., oral 4 Acute tox., inhalation 4 Aquatic Chronic 2

**CFR 1910.1200**

**Signal Word** WARNING

**Hazard Statement(s)** Harmful if swallowed. Harmful if inhaled. Toxic to aquatic life with long lasting effects.

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

<b>Prevention</b>	Prevent the substance from entering in the environment. Prevent inhalation of dust.
<b>Response</b>	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.
<b>Storage</b>	Store in a dry place. Store in a closed container.
<b>Disposal</b>	Dispose package as a dangerous waste.

### Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance

**Components** Selegiline Hydrochloride USP

**% By Weight** 100

**CAS#** 14611-52-0

**Molecular Weight** 223.75 g/mole

**Chemical Formula** C13-H17-N.HCl

**Synonym(s)** (-)-Deprenyl Hydrochloride; 1-Diprenyl Hydrochloride

Mixtures				
Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Selegiline Hydrochloride USP	14611-52-0	100	Not available	ORAL (LD50): Acute: 385 mg/kg [Rat].

**Section 4: First-Aid Measures**

<b>Inhalation</b>	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.
<b>Skin Contact</b>	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.
<b>Eye Contact</b>	Immediately, wash up thoroughly with water for minimum 10 minutes. Remove contact lenses. Seek for medical help immediately.
<b>Ingestion</b>	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.
<b>Symptoms/Effects</b>	
<b>Acute</b>	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.
<b>Delayed</b>	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.

**Immediate Medical Attention**

Not available.

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

Foam, dry powder, water fog, carbon dioxide

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**Formation of toxic and corrosive gases is possible during heating or in case of fire (CO, CO<sub>2</sub>, nitrogen oxides, hydrogen chloride ).**Firefighters Special Equipment and Precautions**

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 (in case of big leakage use protective mask with filtered air supply). Environmental precautions: Do not allow the substance to reach soil, waters and sewage systems. Perform actions against entering washing water into soil, waters and sewage systems. Methods and material for containment and cleaning up: 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 a fume in a working place, Take off protective clothing and means before entering into a dinning-room. Conditions for safe storage, including any incompatibilities: Preserve in tightly closed original containers on dry and well ventilated place at room temperature. Protect from light.

**Section 8: Exposure Controls/Personal Protection**

**Exposure Limits**                      Ensure adequate ventilation. Prevent rising of dust. Use prescribed protective means.

**Safety Data Sheet**

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

**Engineering Controls**

Environmental exposure controls The substance is dangerous to the environment - it can cause long-term adverse effects to aqueous environment. Prevent rising dust, do not allow the substance to reach soil, waters and sewage systems. Follow the regional environmental regulations within manipulation with the substance.

**Personal Protection**

Individual protection measures Respiratory protection : protective mask with combined filter or an aspirator Hand protection : protective gloves (Nitrile, Butyl, PVC) Eye protection : protective mask with combined filter of protective glasses Skin protection : protective clothing, apron, kerchief

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	a white to off white crystalline substance		
<b>Odor</b>	odourless		
<b>Odor Threshold</b>	Not Available		
<b>Melting Point</b>	141 - 142 °C	<b>pH</b>	3.5 - 4.5
<b>Freezing Point</b>	Not Available	<b>Vapor Pressure</b>	Not applicable.
<b>Boiling Point/Range</b>	Not available.	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not Available	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not Available	<b>Evaporation Rate</b>	Not Available
<b>Flash Point</b>	Not available.	<b>Autoignition temperature</b>	Not Available
<b>Flammability</b>	combustible organic substan	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not Available
		<b>Upper</b>	Not Available
<b>Solubility(ies)</b>	freely soluble in water. soluble in ethanol, methanol, chloroform, 0.1 M HC1		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not Available
<b>Chemical Stability</b>	Stable under storage conditions
<b>Hazardous Polymerization</b>	Not available.
<b>Conditions to Avoid</b>	Not available.
<b>Incompatible Materials</b>	strong oxidants
<b>Hazardous Decomposition Products</b>	In event of fire carbon oxide, carbon dioxide, nitrogen oxides and hydrogen chloride may develop.

**Section 11: Toxicological Information**

<b>RTECS</b>	DA0292500		
<b>Acute Toxicity</b>			
LD50 oral in rat: 385 mg/kg	LDJ0 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			
<b>Skin Corrosion/Irritation</b>			
Not Available			
<b>Serious Eye Damage/Irritation</b>			
Not Available			
<b>Respiratory or Skin Sensitization</b>			
Not Available			
<b>Germ Cell Mutagenicity</b>			
Not Available			
<b>Carcinogenicity</b>			
Not Available			
<b>Reproductive Toxicity</b>			

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.

**Routes of Entry**

Irritation for skin, Serious damage of eyes/irritation of eyes, Sensibilization to air ways/Sensibilization to skin,

**Symptoms Related to Exposure**

It can cause somniphathy, dizziness, headache, nausea, dry mouth, skin reaction, postural hypotense, higher liver enzymes, of change of humour, hypersexuality, urine retention, various psychiatric disorders

**Potential Health Effects**

In combination of selegiline with tricyclic anti-depressives strong toxic effect on CNS (serotonine syndrome) can occur sometimes. It can be followed with hyper tenses, hypo tenses and sweating.

**Target Organ(s)** Not Available

**Section 12: Ecological Information****Ecotoxicity**

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).

**Bioaccumulative Potential**

Partition coefficient n-octanol/water not determined. Further information not found.

**Mobility in Soil**

Not Available

**Other Adverse Effects**

Not Available

**Section 13: Disposal Considerations****Waste Disposal**

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. Catalogue number of waste is 160508\* disabled organic chemicals, which contain danger substances. Legislative on waste: Czech law No. 185/2001 Coll on waste, or other local regulations

**Disposal of Container**

Not Available

**Other Considerations**

Not Available

**Section 14: Transport Information****DOT Classification**

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 hazard: Environmentally hazardous substance. Marine pollutant.  
Special precautions for user : - Transport in bulk according to Annex 11 of MARPOL 73/78 and IBC Code: -

**Section 15: Regulatory Information****Regulations**



## Safety Data Sheet

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

Selegiline Hydrochloride USP

30-2911

Regulatory information Safety, health and environmental regulations/lislation specific for the substance or mixture The substance is an aphannaceutical ingredient and is liable to regulations on medicines. The substance is not mentionend 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 clasificated in Appendix 1 Directive of European Council No. 67/548/EEC. This substance is not resctricted by any prescript. Chemical safety assessment: Not required

### Other

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

### Section 16: Other Information

Not available.