

# Material Safety Data Sheet

## Galantamine Tablet ,USP

**Strength:** 4/8/12 mg **Pack Size:** 60/100/1000 Tablets per bottle & 10 \* 10 unit dose blisters **Revision No.:** 00

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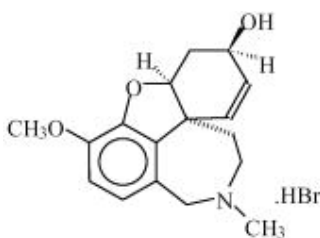
### EMERGENCY OVERVIEW

Each Galantamine Tablet intended for oral administration contains galantamine hydrobromide equivalent to galantamine 4 mg or 8 mg or 12 mg and excipients considered non-toxic and nonhazardous in small quantities and under conditions of normal occupational exposure.

## Section 1. Identification of the substance

### Identification of the product

<b>Product name:</b>	Galantamine Tablet, USP
<b>Formula:</b>	$C_{17}H_{21}NO_3 \cdot HBr$
<b>Chemical Name:</b>	(4a <i>S</i> ,6 <i>R</i> ,8a <i>S</i> )-4a,5,9,10,11,12-hexahydro-3-methoxy-11-methyl-6 <i>H</i> -benzofuro[3a,3,2- <i>ef</i> ][2]benzazepin-6-ol hydrobromide
<b>Therapeutic Category</b>	Treatment of mild to moderate dementia of the Alzheimer's type



**Galantamine Hydrobromide**

### Manufacturer / supplier identification

<b>Company:</b>	<b>Cadila Healthcare Ltd. Ahmedabad, India</b>
<b>Contact for information:</b>	Tel.: +91 79 6868100 Fax: +91 79 3750319
<b>Emergency telephone No.</b>	Tel.: +91 79 6868100

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**Section 2. Composition / information on ingredients**

<b>Component</b>	<b>Exposure Limit</b>	<b>CAS No.</b>
<b>Principle Component :</b>		
Galantamine hydrobromide	Not Found	1953-04-4
<b>Inactive Ingredients :</b>		
Colloidal silicon dioxide	Not Found	7631-86-9
Crospovidone	Not Found	9003-39-8
Hydroxypropyl Methylcellulose	Not Found	9004-65-3
Lactose Monohydrate	Not Found	5989-81-1
Magnesium Stearate	Not Found	577-04-0
Propylene Glycol	Not Found	57-55-6
Titanium Dioxide	Not Found	13463-67-2
Iron Oxide Red	Not Found	NA
Iron oxide yellow	Not Found	NA

**Section 3. Health Hazards Information**

**Dose and Administration**

Galantamine tablets should be administered twice a day, preferably with morning and evening meals.

**Adverse Effects**

**Adverse Events Leading To Discontinuation**

Nausea, Vomiting, Anorexia, Dizziness, Syncope, Anorexia, Weight decrease

**Adverse Events Reported in Controlled Trials**

**Body as whole :** Fatigue, Syncope

**Central and peripheral nervous system disorders:** Dizziness, Headache, Tremor

**Gastrointestinal system disorder:** Nausea, vomiting, diarrhea, abdominal pain, dyspepsia

**Heart rate and rhythm disorder :** bradycardia

**Metabolic and nutritional disorder:** weight decrease

**Psychiatric disorder:** Anorexia, depression, insomnia, somnolence

**Red blood cell disorder :** Anemia

**Respiratory system disorder :** Rhinitis

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**Urinary system disorder :** Urinary tract infection, Hematuria

**Other Adverse Events Observed During Clinical Trials**

**General disorder:**

Frequent: chest pain, asthenia, fever, malaise

**Cardiovascular system disorder**

Infrequent: postural hypotension, hypotension, dependent edema, cardiac failure, myocardial ischemia or infraction

**Central and peripheral nervous system disorders**

Infrequent :vertigo, hypertonia, convulsions, involuntary muscle contractions, parasthesia, ataxia, hypokinesia, hyperkinesias, apraxia, aphasia, leg cramps, tinnitus, transient ischemic attack or cerebrovascular accident

**Gastorintenstinal system disorder**

Frequent : flatulence

Infrequent : gastritis, melena, dysphagia, rectal hemorrhage, dry mouth, saliva increased, diverticulitis, gastroenteritis, hiccup

**Rare :** esophagel perforation

**Heart rate & Rhythm disorder :**

Infrequent: AV block, palpitation, atrial arrhythmias including atrial fibrillation and supraventricular tachycardia, QT prolonged, bundle branch block, T wave inversion, ventricular tachycardia

Rare :severe bradycardia

Metabolic & Nutritional disorder:

Infrequent : hyperglycemia, alkaline phosphate increased

**Platelet bleeding & clotting disorder:**

Infrequent:purpura, epistaxis, thrombocytopenia

**Psychiatric disorder:**

Infrequent: apathy, paroniria, paranoid reaction, libido increased, delirium:

Rare: suicidal ideation, suicide

**Urinary system disorder:**

Frequent: incontinence

Infrequent:hematuria, micturition frequency, cystitis, urinary retention, nocturia, renal calculi

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**Post marketing experience:**

Other adverse events from post approval controlled and uncontrolled clinical trials and post marketing experience observed in patients treated with galantamine includes:

**Body as a whole:**

**General disorders:** dehydration

**Psychiatric disorders:** aggression

**Gastrointestinal system disorders:** upper and lower GI bleeding

**Metabolic and nutritional disorders:** hypokalemia

<b>Over Dose Effect</b>	Muscle weakness or fasciculations, severe nausea, vomiting, gastrointestinal cramping, salivation, lacrimation, urination, defecation, sweating, bradycardia, hypotension, respiratory, depression, collapse and convulsions, Increasing muscle weakness is a possibility and may result in death if respiratory muscles are involved.
<b>Medical Conditions</b>	Patient should inform the doctor about all the present or past health problems. Include: Anesthesia ,Cardiovascular Conditions ,Gastrointestinal Conditions ,Genitourinary, Neurological Conditions ,Pulmonary Conditions ,
<b>Contraindications</b>	Galantamine tablets are contraindicated in patients with known hypersensitivity to galantamine or to any excipients used in the formulation.
<b>Pregnancy Comments</b>	There are no adequate and well-controlled studies of galantamine in pregnant women. Galantamine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.
<b>Pregnancy Category</b>	<i>Category B</i>

**Section 4. First aid measures**

<b>General</b>	<b>Skin Contact:</b> Wash contaminated area with soap and water. <b>Eye Contact:</b> Flush with running water for 15 minutes holding eyelids open. <b>Inhalation:</b> No specific treatment is necessary since this product is not likely to be hazardous by inhalation if tablet is left intact. <b>Ingestion:</b> Get medical attention immediately; induce vomiting if victim is conscious
<b>Overdose Treatment</b>	Tertiary anticholinergics such as atropine may be used as an antidote for galantamine hydrobromide overdosage.

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### Section 5. Fire – fighting measures

<b>Flash point</b>	Not Found	<b>Upper Flammable Limit:</b>	Not Found
<b>Auto-Ignition Temperature:</b>	Not Found	<b>Lower Flammable Limit:</b>	Not Found
<b>Extinguishing Media</b>	Water Spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and material.	<b>Fire and Explosion Hazard</b>	Not Found
<b>Fire Fighting Procedure</b>	As with all fires, evacuate personnel to a safe area. Fire fighter should use self- contained breathing equipment and protective clothing.		

### Section 6. Accidental Release Measures

**Spill Response**            Wear approved respiratory protection, chemically compatible gloves and protective clothing. Wipe up spillage or collect spillage using high efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labelled container for disposal. Wash spill site.

### Section 7. Handling and Storage

**Storage**                    Store at 20° to 25°C (68° to 77°F)  
Dispense in a tight container.

### Section 8. Exposure controls and personal protection

**Respiratory Protection**            Protection from inhalation is not normally necessary. If ventilation is inadequate or dust is likely to generate, use of suitable dust mask would be appropriate.

**Skin Protection**                    Skin protection is not normally necessary, however it is good practice to avoid contact with chemical to use suitable gloves when handling.

**Eye protection**                    Eye protection is not normally necessary. If concerned wear protective goggles or glasses. Wash hands prior to touching eye and in particular handling contact lenses.

**Protective Clothing**                Protective clothing is not normally necessary, however it is good practice to use apron.

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**Section 9. Physical and chemical properties**

<b>Appearance</b>	Galantamine Tablets, USP equivalent to 4 mg of galantamine are light pink, round , biconvex, film-coated tablets debossed with '77' on one side and 'Z' on the other side Galantamine Tablets, USP equivalent to 8 mg of galantamine are off-white, round, biconvex, film-coated tablets debossed with '78' on one side and 'Z' on the other side Galantamine Tablets, USP equivalent to 12 mg of galantamine are off-white, round, biconvex, film-coated tablets debossed with '79' on one side and 'Z' on the other side		
<b>Solubility in water</b>	soluble	<b>Odour</b>	No Data Available
<b>Boiling point</b>	No Data Available	<b>Melting Point</b>	No Data Available
<b>Evaporation rate</b>	No Data Available	<b>Vapour density</b>	No Data Available
<b>Reactivity in water</b>	No Data Available	<b>Evaporation rate</b>	No Data Available
<b>Percentage Volatile by volume</b>	No Data Available	<b>Specific gravity</b>	No Data Available
<b>Vapour pressure</b>	No Data Available		
<b>Other information</b>	Not Applicable		

**Section 10. Stability and Reactivity**

<b>Condition to avoid</b>	Avoid exposure to extreme heat, light and moisture.	<b>Stable</b>	Stable under normal ambient and anticipated storage and handling conditions.
<b>Hazardous Decomposition</b>	Oxides of carbon, oxide of nitrogen, hydrogen bromide	<b>Hazardous polymerization</b>	Oxides of carbon, oxide of nitrogen, hydrogen bromide
<b>Incompatibilities</b>	No data available.		

**Section 11. Toxicological information**

<b>General</b>	Handling of formulated product is not expected to cause any toxicological affects. The data pertains to the ingredient in formulations, rather than this specie formulation.
<b>Target organ</b>	Eye contact, Skin contact and inhalation is not great risk as this product is tablet.

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**other** Acute Toxicity  
Active Ingredient:  
LD 50 oral(rat) : 75 mg/kg

**Carcinogenicity** Not listed as a carcinogen by NTO, IARC monographs or OSHA

**Section 12. Ecological information**

Do not allow product to enter drinking water supplies, waste water or soil

**Section 13. Disposal Consideration**

**Disposal** Dispose the waste in accordance with all applicable Federal, State and local laws.

**Section 14. Transport Information**

May be shipped normally as a non hazardous material.

**Section 15. Regulatory Information**

Galantamine Tablet, USP approved by USFDA & the ANDA Number is 078898

**Section 16. Other information**

None

**Date of issue:** 12/09/2011

**Supersedes edition of:** New Edition

The information contained herein is based on the state of our knowledge. It Characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.