

## SAFETY DATA SHEETS

### According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

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#### 1. Identification

##### 1.1 GHS Product identifier

**Product name** donepezil

##### 1.2 Other means of identification

**Other names** n-1-one

##### 1.3 Recommended use of the chemical and restrictions on use

**Identified uses** For industry use only.

##### 1.4 Supplier's details

**Company** Wuhan Xinru Chemical Industry Co., Ltd

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#### 2. Hazard identification

##### 2.1 Classification of the substance or mixture

Acute toxicity - Oral, Category 2

##### 2.2 GHS label elements, including precautionary statements

###### Pictogram(s)



**Signal word** Danger

**Hazard statement(s)** H300 Fatal if swallowed

###### Precautionary statement(s)

**Prevention** P264 Wash ... thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

**Response** P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P321 Specific treatment (see ... on this label).

P330 Rinse mouth.

**Storage**

P405 Store locked up.

**Disposal**

P501 Dispose of contents/container to ...

**3.Composition/information on ingredients**

**3.1Substances**

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
donepezil	donepezil	120014-06-4	none	100%

**4.First-aid measures**

**4.1Description of necessary first-aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2Most important symptoms/effects, acute and delayed**

no data available

**4.3Indication of immediate medical attention and special treatment needed, if necessary**

no data available

**5.Fire-fighting measures**

**5.1Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2Specific hazards arising from the chemical**

no data available

**5.3Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**6.Accidental release measures**

**6.1Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

## **6.2 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.

## **6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Occupational Exposure limit values**

no data available

#### **Biological limit values**

no data available

### **8.2 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **8.3 Individual protection measures, such as personal protective equipment (PPE)**

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Respiratory protection**

Wear dust mask when handling large quantities.

#### **Thermal hazards**

no data available

## 9. Physical and chemical properties

**Physical state** white or almost white crystal powder

**Colour** no data available

**Odour** no data available

**Melting point/ freezing point** 207°C

**Boiling point or initial boiling point and boiling range** 527.9°C at 760mmHg

**Flammability** no data available

**Lower and upper explosion limit / flammability limit** no data available

**Flash point** 273.1°C

**Auto-ignition temperature** no data available

**Decomposition temperature** no data available

**pH** no data available

**Kinematic viscosity** no data available

**Solubility** no data available

**Partition coefficient n-octanol/water (log value)** no data available

**Vapour pressure** 3.11E-11mmHg at 25°C

**Density and/or relative density** 1.141g/cm<sup>3</sup>

**Relative vapour density** no data available

**Particle characteristics** no data available

## 10. Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

## **10.6 Hazardous decomposition products**

no data available

## **11. Toxicological information**

### **Acute toxicity**

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

### **Skin corrosion/irritation**

no data available

### **Serious eye damage/irritation**

no data available

### **Respiratory or skin sensitization**

no data available

### **Germ cell mutagenicity**

no data available

### **Carcinogenicity**

no data available

### **Reproductive toxicity**

no data available

### **STOT-single exposure**

no data available

### **STOT-repeated exposure**

no data available

### **Aspiration hazard**

no data available

## **12. Ecological information**

### **12.1 Toxicity**

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

### **12.2 Persistence and degradability**

no data available

### **12.3 Bioaccumulative potential**

no data available

### **12.4 Mobility in soil**

no data available

### **12.5 Other adverse effects**

no data available

## **13. Disposal considerations**

### **13.1 Disposal methods**

#### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## **14. Transport information**

### **14.1 UN Number**

ADR/RID: UN2811

IMDG: UN2811

IATA: UN2811

### **14.2 UN Proper Shipping Name**

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S.

IMDG: TOXIC SOLID, ORGANIC, N.O.S.

IATA: TOXIC SOLID, ORGANIC, N.O.S.

### **14.3 Transport hazard class(es)**

ADR/RID: unknown

IMDG: unknown

IATA: unknown

### **14.4 Packing group, if applicable**

ADR/RID: unknown

IMDG: unknown

IATA: unknown

### **14.5 Environmental hazards**

ADR/RID: no

IMDG: no

IATA: no

### **14.6 Special precautions for user**

no data available

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

no data available

## **15. Regulatory information**

### **15.1 Safety, health and environmental regulations specific for the product in question**

<b>Chemical name</b>	<b>Common names and synonyms</b>	<b>CAS number</b>	<b>EC number</b>
donepezil	donepezil	120014-06-4	none
<b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b>			Not Listed.
<b>EC Inventory</b>			Not Listed.
<b>United States Toxic Substances Control Act (TSCA) Inventory</b>			Not Listed.
<b>China Catalog of Hazardous chemicals 2015</b>			Not Listed.
<b>New Zealand Inventory of Chemicals (NZIoC)</b>			Not Listed.
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>			Not Listed.
<b>Vietnam National Chemical Inventory</b>			Not Listed.
<b>Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)</b>			Not Listed.

## **16. Other information**

### **Abbreviations and acronyms**

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%