

## Chemical Safety Data Sheet MSDS / SDS

## Clonazepam

Revision Date:2026-03-20 Revision Number:1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## Product identifier

Product name : Clonazepam  
CBnumber : CB1294954  
CAS : 1622-61-3  
EINECS Number : 216-596-2  
Synonyms : CLONAZEPAM

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

## Company Identification

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

## SECTION 2: Hazards identification

## GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Danger

## Precautionary statements

P311 Call a POISON CENTER or doctor/physician.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

## Hazard statements

H225 Highly Flammable liquid and vapour  
H370 Causes damage to organs

## SECTION 3: Composition/information on ingredients

## Substance

Product name	: Clonazepam
Synonyms	: CLONAZEPAM
CAS	: 1622-61-3
EC number	: 216-596-2
MF	: C15H10ClN3O3
MW	: 315.71

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## SECTION 4: First aid measures

### Description of first aid measures

#### General information

No special measures required.

#### After inhalation

Supply fresh air; consult doctor in case of complaints.

#### After skin contact

Generally the product does not irritate the skin.

#### After eye contact

Rinse opened eye for several minutes under running water.

#### After swallowing

If symptoms persist consult doctor.

#### Information for doctor

#### Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing agents

Use fire fighting measures that suit the environment.

A solid water stream may be inefficient.

### **Special hazards arising from the substance or mixture**

No further relevant information available.

### **Advice for firefighters**

### **Protective equipment**

No special measures required.

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## **SECTION 6: Accidental release measures**

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

Not required.

### **Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

### **Methods and material for containment and cleaning up**

Pick up mechanically.

### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### **Protective Action Criteria for Chemicals**

#### **PAC-1**

Substance is not listed.

#### **PAC-2**

Substance is not listed.

#### **PAC-3**

Substance is not listed.

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## **SECTION 7: Handling and storage**

### **Handling**

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

No special measures required.

#### **Information about protection against explosions and fires**

No special measures required.

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

#### **Storage**

Store in accordance with information listed on the product insert.

#### **Requirements to be met by storerooms and receptacles**

No special requirements.

#### **Information about storage in one common storage facility**

Not required.

#### **Further information about storage conditions**

None.

#### **Specific end use(s)**

No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

### **Additional information about design of technical systems**

No further data; see section 7.

#### **Control parameters**

#### **Components with limit values that require monitoring at the workplace**

Not required.

#### **Additional information**

The lists that were valid during the creation were used as basis.

#### **Exposure controls**

#### **Personal protective equipment**

#### **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

#### **Breathing equipment**

Not required.

#### **Protection of hands**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### **Eye protection**

Not required.

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## **SECTION 9: Physical and chemical properties**

### **Information on basic physicochemical properties**

#### **Appearance**

#### **Physical State**

Solid

#### **Color**

According to product specification

#### **Odor**

Characteristic

#### **Structural Formula**

C<sub>15</sub>H<sub>10</sub>ClN<sub>3</sub>O<sub>3</sub>

#### **Molecular Weight**

315.7 g/mol

#### **Odor Threshold**

Not determined.

#### **pH**

Not applicable.

#### **Change in condition**

#### **Melting point/Melting range**

238–240 °C (460.4–464 °F)

#### **Boiling point/Boiling range**

524.5±50.0 °C(Predicted)

**Flash point**

11 °C

**Flammability (solid,gas)**

Product is not flammable.

**Decomposition temperature**

Not determined.

**Ignition temperature**

Not determined.

**Danger of explosion**

Product does not present an explosion hazard.

**Explosion limits**

Lower: Not determined.

Upper: Not determined.

**Vapor Pressure**

Not applicable.

**Density**

1.4592 (rough estimate)

**Relative Density**

1.4592 (rough estimate)

**Vapor Density**

Not applicable.

**Evaporation Rate**

Not applicable.

**Solubility in / Miscibility with**

Practically insoluble in water, slightly soluble in alcohol and in methanol.

**Water**

Soluble.

**Partition coefficient (n-octanol/water)**

Not determined.

**Viscosity****Dynamic**

Not applicable.

#### **Kinematic**

Not applicable.

#### **SOLUBILITY**

DMF: 25 mg/ml, DMSO: 25 mg/ml, DMSO:PBS(pH7.2) (1:1) 0.5 mg/ml

VOC content: 0.00 %

Solids content: 100.0 %

#### **Other information**

No information available

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## SECTION 10: Stability and reactivity

#### **Reactivity**

No further relevant information available.

#### **Chemical stability**

#### **Thermal decomposition / conditions to be avoided**

No decomposition if used according to specifications.

#### **Possibility of hazardous reactions**

No dangerous reactions known.

#### **Conditions to avoid**

No further relevant information available.

#### **Incompatible materials**

Strong oxidizing agents.

#### **Hazardous decomposition products**

Carbon oxides, Hydrogen chloride, Nitrogen oxides

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## SECTION 11: Toxicological information

#### **RTECS Number**

DF2100000

#### **Information on toxicological effects**

#### **Acute toxicity**

LD/LC50 values that are relevant for classification:

Substance / Estimate	Route	Endpoint	Value
	Oral	TDLO	21 ml/kg (human)
	Intraperitoneal	LD50	13,300 µg/kg (mouse)
	Intraperitoneal	LD50	14,200 mg/kg (rat)
1622-61-3 Clonazepam	Oral	LD50	>15 g/kg (rat)
1622-61-3 Clonazepam	Oral	TDLO	1,329 µg/kg/31D intermittent (man)
1622-61-3 Clonazepam	Intraperitoneal	LD50	14,200 mg/kg (rat)
1622-61-3 Clonazepam	Subcutaneous	LD50	>10 g/kg (rat)

### Primary irritant effect

#### on the skin

No irritant effect.

#### on the eye

No irritating effect.

### Sensitization

No sensitizing effects known.

### Additional toxicological information

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

### Carcinogenic categories

#### IARC (International Agency for Research on Cancer)

Substance is not listed.

#### NTP (National Toxicology Program)

Substance is not listed.

#### OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

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## SECTION 12: Ecological information

### Toxicity

#### Aquatic toxicity

No further relevant information available.

#### Persistence and degradability

No further relevant information available.

### **Behavior in environmental systems**

#### **Bioaccumulative potential**

No further relevant information available.

#### **Mobility in soil**

No further relevant information available.

### **Additional ecological information**

#### **General notes**

Water hazard class 1 (Self-assessment) slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### **Results of PBT and vPvB assessment**

#### **PBT**

Not applicable.

#### **vPvB**

Not applicable.

#### **PBT:**

Not applicable.

#### **vPvB:**

Not applicable.

### **Other adverse effects**

No further relevant information available.

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## **SECTION 13: Disposal considerations**

### **Waste treatment methods**

#### **Recommendation**

Smaller quantities can be disposed of with household waste.

### **Uncleaned packagings**

#### **Recommendation**

Disposal must be made according to official regulations.

### Recommended cleansing agent

Water, if necessary with cleansing agents.

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## SECTION 14: Transport information

### UN-Number

DOT, IMDG, IATA not regulated

### UN proper shipping name

DOT, IMDG, IATA not regulated

### Transport hazard class(es)

DOT, ADN, IMDG, IATA

Class not regulated

### Packing group

DOT, IMDG, IATA not regulated

### Environmental hazards

Not applicable.

### Special precautions for user

Not applicable.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

MARPOL73/78 and the IBC Code Not applicable.

### UN "Model Regulation"

not regulated

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

### Sara

Section 355 (extremely hazardous substances):	Substance is not listed.
Section 313 (Specific toxic chemical listings):	Substance is not listed.
TSCA (Toxic Substances Control Act):	Substance is not listed.
Hazardous Air Pollutants:	Substance is not listed.

### Proposition 65

Chemicals known to cause cancer:	Substance is not listed.
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Chemical Book

Chemicals known to cause reproductive toxicity for females:	Substance is not listed.
Chemicals known to cause reproductive toxicity for males:	Substance is not listed.
Chemicals known to cause developmental toxicity:	Substance is not listed.

### Carcinogenic categories

EPA (Environmental Protection Agency):	Substance is not listed.
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### TLV (Threshold Limit Value)

Substance is not listed.

### NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

### Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

#### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.