

## Chemical Safety Data Sheet MSDS / SDS

**TEMAZEPAM**Revision Date:2026-05-31 Revision Number:1

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name : TEMAZEPAM  
CBnumber : CB9185627  
CAS : 846-50-4  
EINECS Number : 212-688-1  
Synonyms : Temazepam,RESTORIL

**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

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**SECTION 2: Hazards identification****GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Warning

**Precautionary statements**

P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.  
P330 Rinse mouth.  
P501 Dispose of contents/container to.....

**Hazard statements**H302 Harmful if swallowed

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**SECTION 3: Composition/information on ingredients**

## Substance

Product name	: TEMAZEPAM
Synonyms	: Temazepam,RESTORIL
CAS	: 846-50-4
EC number	: 212-688-1
MF	: C16H13ClN2O2
MW	: 300.74

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## SECTION 4: First aid measures

### Description of first aid measures

#### General information

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact

Immediately rinse with water.

#### After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### After swallowing

Immediately call a 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

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

## Special hazards arising from the substance or mixture

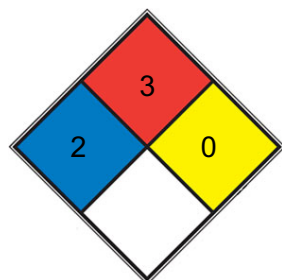
67-56-1 During heating or in case of fire poisonous gases are produced.

## Advice for firefighters

## Protective equipment

Mouth respiratory protective device.

## NFPA 704



HEALTH 2 Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g. [diethyl ether](#), ammonium phosphate, iodine)

FIRE 3 Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions. Liquids having a flash point below 22.8 °C (73 °F) and having a boiling point at or above 37.8 °C (100 °F) or having a flash point between 22.8 and 37.8 °C (73 and 100 °F). (e.g. gasoline, [acetone](#))

REACT 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, [N<sub>2</sub>](#))

SPEC.  
 HAZ.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

### Environmental precautions

Dilute with plenty of water.

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

### Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

### 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**

75-05-8 Acetonitrile 13 ppm

#### **PAC-2**

75-05-8 Acetonitrile 50 ppm

#### **PAC-3**

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

### **Handling**

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

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

#### **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**

Store in a cool location.

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

Not required.

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

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

No further relevant information available.

## 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

75-05-8 Acetonitrile	
PEL	Long-term value: 70 mg/m <sup>3</sup> , 40 ppm
REL	Long-term value: 34 mg/m <sup>3</sup> , 20 ppm
TLV	Long-term value: 20 ppm Skin, A4

### Additional information

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

### Exposure controls

### Personal protective equipment

### General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

### Breathing equipment

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

### Protection of hands

Protective gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## **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**

Tightly sealed goggles

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# SECTION 9: Physical and chemical properties

## **Information on basic physicochemical properties**

### **Appearance**

### **Physical State**

Liquid

### **Color**

According to product specification

### **Odor**

Aromatic

### **Structural Formula**

C<sub>16</sub>H<sub>13</sub>CIN<sub>2</sub>O<sub>2</sub>

### **Molecular Weight**

300.7 g/mol

### **Odor Threshold**

Not determined.

### **Formulation**

A 1 mg/ml solution in acetonitrile

### **pH**

Not determined.

### **Change in condition**

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

-46 °C (-50.8 °F)

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

81 °C (177.8 °F)

### **Flash point**

2 °C (35.6 °F)

### **Flammability (solid,gas)**

Highly flammable.

### **Auto igniting**

525 °C (977 °F)

### **Decomposition temperature**

Not determined.

### **Ignition temperature**

Product is not selfigniting.

### **Danger of explosion**

Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.

### **Explosion limits**

Lower: 4.4 Vol %

Upper: 16 Vol %

### **Vapor Pressure at 20 °C (68 °F)**

98.64 hPa (74 mm Hg)

### **Vapor Pressure at 50 °C (122 °F)**

330 hPa (247.5 mm Hg)

### **Density at 20 °C (68 °F)**

0.79 g/cm<sup>3</sup> (6.59255 lbs/gal)

### **Relative Density**

1.2682 (rough estimate)

### **Vapor Density**

Not determined.

### **Evaporation Rate**

Not determined.

### **Solubility in / Miscibility with**

Practically insoluble in water, freely soluble in methylene chloride, sparingly soluble in ethanol (96 per cent).

### **Water at 25 °C (77 °F)**

1000 g/l

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

Not determined.

**Viscosity****Dynamic**

at 20 °C (68 °F): 0.35 mPas

**Kinematic**

Not determined.

**VOC content**

0.00 % 0.0 g/l / 0.00 lb/gal

**Solids content**

0.1 %

**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**

oxidizing agents, reducing agents

**Hazardous decomposition products**

carbon dioxide, carbon monoxide, hydrogen cyanide, nitrogen oxides

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**SECTION 11: Toxicological information****Information on toxicological effects**

## Acute toxicity

LD/LC50 values that are relevant for classification:

Substance / Estimate	Route	Endpoint	Value
ATE (Acute Toxicity Estimate)	Oral	LD50	618 mg/kg (mouse)
ATE (Acute Toxicity Estimate)	Dermal	LD50	1,502 mg/kg (rabbit)
ATE (Acute Toxicity Estimate)	Inhalative	LC50/4 h	11 mg/l
75-05-8 Acetonitrile	Oral	LD50	617 mg/kg (mouse) (OECD Test Guideline 401)
75-05-8 Acetonitrile	Dermal	LD50	1,500 mg/kg (rabbit) (Expert Judgement) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
75-05-8 Acetonitrile	Inhalative	LC50/4 h	6.022 mg/l (mouse) (OECD Test Guideline 403)
846-50-4 Temazepam	Oral	LD50	370 mg/kg (mouse)
846-50-4 Temazepam	Oral	LD50	2 g/kg (rat)
846-50-4 Temazepam	Oral	TDLO	429 µg/kg (man)
846-50-4 Temazepam	Intraperitoneal	LD50	600 mg/kg (rat)

## Primary irritant effect

### on the skin

No irritant effect.

### on the eye

Irritating effect.

## Sensitization

No sensitizing effects known.

## Additional toxicological information

The product shows the following dangers according to internally approved calculation methods for preparations

Harmful

Irritant

## Carcinogenic categories

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

846-50-4 Temazepam 3

### NTP (National Toxicology Program)

None of the ingredients is listed.

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

None of the ingredients is 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 2 (Self-assessment) hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

### **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**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**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 UN1648

**UN proper shipping name**

DOT, IATA Acetonitrile solution

IMDG ACETONITRILE solution

**Transport hazard class(es)****DOT**

Class: 3 Flammable liquids

Label: 3

**IMDG, IATA**

Class: 3 Flammable liquids

Label: 3

**Packing group**

DOT, IMDG, IATA II

**Environmental hazards**

Not applicable.

**Special precautions for user**

Warning: Flammable liquids

**Hazard identification number (Kemler code)**

33

**EMS Number**

F-E,S-D

**Stowage Category**

B

**Stowage Code**

SW2 Clear of living quarters.

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

Not applicable.

**Transport/Additional information****DOT:****Quantity limitations**

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

**IMDG:****Limited quantities (LQ)**

1L

**Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**IATA:****Remarks**

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of

E1, E2, E4, or E5, this item meets the De Minimis

Quantities exemption, per IATA 2.6.10.

Therefore packaging does not have to be labeled as

Dangerous Goods/Excepted Quantity.

**UN "Model Regulation"**

UN 1648 ACETONITRILE SOLUTION, 3, II

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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):	None of the ingredients is listed.
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Section 313 (Specific toxic chemical listings):	75-05-8 Acetonitrile
TSCA (Toxic Substances Control Act):	75-05-8 Acetonitrile ACTIVE
Hazardous Air Pollutants 75-05-8 Acetonitrile	

### Proposition 65

Chemicals known to cause cancer:	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredients is listed.
Chemicals known to cause developmental toxicity:	846-50-4 Temazepam

### Carcinogenic categories

EPA (Environmental Protection Agency):

### 75-05-8

Acetonitrile CBD, D

### TLV (Threshold Limit Value)

### 75-05-8

Acetonitrile A4

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

None of the ingredients is 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

ELINCS: European List of Notified 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

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Toxic to Reproduction 2: Reproductive toxicity – Category 2

**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.