

## Chemical Safety Data Sheet MSDS / SDS

**HYDROCODONE BITARTRATE**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 : HYDROCODONE BITARTRATE  
CBnumber : CB9473263  
CAS : 143-71-5  
EINECS Number : 205-608-1  
Synonyms : hydrocodone bitartrate,Hydrocodone Hydrogen Tartrate

**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**

P501 Dispose of contents/container to.....

P330 Rinse mouth.

P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

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

P264 Wash skin thoroughly after handling.

**Hazard statements**

H302 Harmful if swallowed

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

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## Substance

Product name	: HYDROCODONE BITARTRATE
Synonyms	: hydrocodone bitartrate, Hydrocodone Hydrogen Tartrate
CAS	: 143-71-5
EC number	: 205-608-1
MF	: C22H27NO9
MW	: 449.45

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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.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

#### After inhalation

Supply fresh air or oxygen; call for doctor.

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

#### After skin contact

Immediately wash with water and soap and rinse thoroughly.

#### After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

#### After swallowing

If symptoms persist consult 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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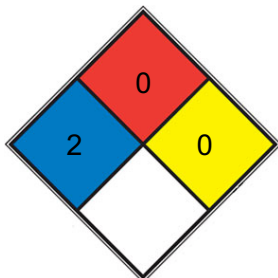
## SECTION 5: Firefighting measures

### FIRE-FIGHTING MEASURES

Fire-fighting measure	Details
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.
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 0 Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. Materials that will not burn in air when exposed to a temperature of 820 °C (1,500 °F) for a period of 5 minutes.(e.g. Carbon tetrachloride)

REACT 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium,[N2](#))

SPEC.  
 HAZ.

## 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

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

### Protective Action Criteria for Chemicals

#### PAC-1

Substance is not listed.

#### PAC-2

Substance is not listed.

## **PAC-3**

Substance is not listed.

### **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.

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

### **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

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

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**

No special requirements.

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

Not required.

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

Keep receptacle tightly sealed.

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

No further relevant information available.

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## **SECTION 8: Exposure controls/personal protection**

### **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**

### **Appropriate engineering controls**

No further data; see section 7.

### **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 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.

#### **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**

Goggles recommended during refilling.

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## SECTION 9: Physical and chemical properties

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

#### **Physical State**

Liquid

#### **Color**

White

#### **Odor**

Characteristic

### **Structural Formula**

C<sub>18</sub>H<sub>21</sub>NO<sub>3</sub> C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>

### **Molecular Weight**

449.5 g/mol

### **Storage Buffer**

### **Odor Threshold**

Not determined.

### **Formulation**

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

Undetermined.

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

Undetermined.

### **Flammability**

Not applicable.

### **Explosion limits**

Lower: Not determined.

Upper: Not determined.

### **Flash point**

Not applicable.

### **Decomposition temperature**

Not determined.

### **pH**

Not determined.

### **Viscosity**

### **Kinematic**

Not determined.

### **SOLUBILITY**

DMF: 30 mg/ml; DMSO: 30 mg/ml; PBS (pH 7.2): 10 mg/ml

### **Dynamic**

Not determined.

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

H<sub>2</sub>O: 62 mg/mL

### **Water**

Not determined.

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

Not determined.

### **Vapor Pressure**

Not determined.

### **Density**

Not determined.

### **Relative Density**

Not determined.

### **Vapor Density**

Not determined.

### **Particle characteristics**

Not applicable.

### **Other information**

### **Appearance**

### **Form**

Fluid

### **Important information on protection of health and environment, and on safety.**

### **Ignition temperature**

Not determined.

### **Danger of explosion**

Product does not present an explosion hazard.

### **Change in condition**

### **Evaporation Rate**

Not determined.

## 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 dioxide, carbon monoxide, nitrogen oxides

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## SECTION 11: Toxicological information

### RTECS Number

### Information on toxicological effects

### Acute toxicity

LD/LC50 values that are relevant for classification:

Route	Endpoint	Value
Oral	LD50	375 mg/kg (rat)
Subcutaneous	TDLO	0.95 mg/kg (rat)
Intraperitoneal	TDLO	2.76 mg/kg (rat)

### Primary irritant effect

#### on the skin

No irritant effect.

#### on the eye

No irritating effect.

### Sensitization

Sensitization possible through skin contact.

### **Additional toxicological information**

#### **Interactive effects**

No interactive effects between components are known.

#### **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.

#### **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

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## SECTION 12: Ecological information

### **Toxicity**

#### **Aquatic toxicity**

No further relevant information available.

#### **Persistence and degradability**

No further relevant information available.

#### **Bioaccumulative potential**

No further relevant information available.

#### **Mobility in soil**

No further relevant information available.

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

#### **PBT**

Not applicable.

#### **vPvB**

Not applicable.

#### **PBT:**

Not applicable.

**vPvB:**

Not applicable.

**Other adverse effects**

**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.

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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.

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## SECTION 14: Transport information

**UN-Number**

DOT, IMDG, IATA UN2810

**UN proper shipping name**

DOT Toxic, liquids, organic, n.o.s. (Hydrocodone (bitartrate))

IMDG TOXIC LIQUID, ORGANIC, N.O.S. (Hydrocodone (bitartrate))

IATA Toxic liquid, organic, n.o.s. (Hydrocodone (bitartrate))

**Transport hazard class(es)**

**DOT**

Class: 6.1 Toxic substances

Label: 6.1

**IMDG, IATA**

Class: 6.1 Toxic substances

Label: 6.1

**Packing group**

DOT, IMDG, IATA I

### **Environmental hazards**

Not applicable.

### **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: 1 L

On cargo aircraft only: 30 L

#### **IMDG:**

#### **Limited quantities (LQ)**

0

#### **Excepted quantities (EQ)**

Code: E5

Maximum net quantity per inner packaging: 1 ml

Maximum net quantity per outer packaging: 300 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.

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

Warning: Toxic substances

#### **Hazard identification number (Kemler code)**

66

#### **EMS Number**

F-A, S-A

#### **Stowage Category**

B

## Stowage Code

SW2 Clear of living quarters.

## UN "Model Regulation"

UN 2810 TOXIC LIQUID, ORGANIC, N.O.S.

(HYDROCODONE (BITARTRATE)), 6.1, I

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

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## 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)

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

Acute toxicity - oral 1: Acute toxicity – Category 1

Acute toxicity - dermal 4: Acute toxicity – Category 4

Acute toxicity - inhalation 2: Acute toxicity – Category 2

Sensitization - respiratory 1B: Respiratory sensitisation – Category 1B

Sensitization - skin 1: Skin sensitisation – Category 1

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

**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.