

Version: 1.0

Issued: 11 Jan 2022

Category 3 narcotic effects

1. Identification

Product IdentifierBuprenorphine Hydrochloride

Other means of identification

 Internal item number
 82393-0115

 CAS number
 53152-21-9

Chemical name 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-alpha-(1,1-

dimethylethyl)- 4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-alpha-

methyl-, hydrochloride, [5alpha, 7alpha (S)]-

Relevant use and restrictions: No further information available.

Application of substance: Active pharmaceutical ingredient.

Manufacturer/Supplier information

Company name Pharma Source Direct

Address 8591 Prairie Trail Drive, Ste C-600

Englewood, CO 80112 www.pharmasd.com

Emergency phone number Infotrac: 1-800-535-5053

2. Hazard(s) Identification

Website

Physical hazards Not classified

Health hazards Acute toxicity, oral Category 4

Specific target organ toxicity, single

exposure

Environmental hazards Not classified

OSHA defined hazards Not classified

Label elements



Signal word Warning

Hazard statement Harmful if swallowed. May cause drowsiness or dizziness.

Precautionary statement

Prevention Avoid breathing dust/fume. Wash thoroughly after handling. Use only

outdoors or in a well-ventilated area.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse

mouth. If inhaled: Remove person to fresh air and keep comfortable

for breathing. Call a poison center/doctor if you feel unwell.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/

national/international regulations.



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Hazards not otherwise classified (HNOC)

None known.

Supplemental information

Potent pharmacologically active material.

3. Composition/Information on Ingredients

Su	hs	tar	nce

Chemical name	Common name and synonyms	CAS number	%	
Buprenorphine Hydrochloride		53152-21-9	100	

4. First-aid Measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist

Skin contact Rinse skin with water/shower. Get medical attention if irritation

develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and

persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison

control center immediately.

Most important symptoms/effects,

acute and delayed

Narcotic effects. Potent pharmacologically active material.

Occupational exposure to small amounts may cause physiological

effects.

Indication of immediate medical attention and special treatment

needed

Treat symptomatically. Treatment for opioid overdose may include the following: Do not induce vomiting. Administer activated charcoal as a slurry. Monitor vital signs, pulse oximetry, and cardiac function. Monitor for CNS and respiratory depression. Administer oxygen and assist ventilation for respiratory depression. Protect airway with orotracheal intubation. Naloxone reverses coma and respiratory depression. Administer intravenously, intramuscularly, intratracheally, intranasally, or subcutaneously. A continuous infusion might be needed for long-acting opioids. Treat seizures with intravenous benzodiazepines; propofol or barbiturates may be administered if seizures persist. Treat hypotension with an infusion of isotonic fluid. If hypotension persists, administer dopamine or norepinephrine. Hemodialysis and hemoperfusion are not recommended. [Poisindex]

General Information Remove from exposure. Remove contaminated clothing. For treatment

advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions

must receive immediate medical attention.

5. Fire-fighting Measures

Suitable extinguishing media

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.



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Unsuitable extinguishing media None known.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and

precautions for firefighters

Wear suitable protective equipment.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-

contained breathing equipment and protective clothing.

Specific methods Use standard firefighting procedures and consider the hazards of

other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove

residual contamination.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling Avoid all contact and inhalation of dust, mists, and/or vapors

associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment

devices and personal protective equipment based on a risk assessment of material potency and exposure potential.

Conditions for safe storage, including any incompatibilities Store in tight container. This material should be handled and stored per label instructions to ensure product integrity.

8. Exposure Controls & Personal Protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Exposure limit values

Industrial Use

Material	Туре	Value	
Buprenorphine Hydrochloride	TWA	0.001 mg/m3	_
(CAS 53152-21-9)			



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Biological limit values

No biological exposure limits noted for the ingredient(s)

Appropriate engineering controls No open handling. For laboratory operations, use approved ventilation

or containment system (biological safety cabinet, ventilated balance enclosure, glovebox). Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of

exposure potential. Cover all containers for solutions and slurries while

being transferred.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields, chemical splash goggles, or full

face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye

wash station should be available.

Skin protection

Hand protection Consider double gloves. Wear nitrile or other impervious gloves if skin

contact is possible. When the material is dissolved or suspended in an

organic solvent, wear gloves that provide protection against the

solvent.

Other Train employees in proper gowning and degowning practices. Wear

disposable lab coat, disposable sleeve covers and two pair of gloves as appropriate for the task. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or

out-of-doors.

Respiratory protectionUse a powered air-purifying respirator (PAPR) with HEPA filters,

disposable outerware and head cover for spill cleanup. Chose respiratory protection appropriate to the task and the level of existing

engineering controls.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygieneconsiderations
Pharmacological effects may be seen with occupational exposure.
Procedures for any use or quantity should be determined after an

appropriate assessment.

9. Physical and Chemical Properties

Appearance Appearance descriptions are general information and not specific to

any lot.

Physical state Solid.
Form Powder.
Color White.

Odor Odorless.
Odor threshold Not available.
pH Not available.

Melting point/freezing point 509 - 519.8 °F (265 - 271 °C) (decomposes)

Initial boiling point and boiling

range

Not available.

Flash point

Evaporation rate

Not available.

Not available.

Not available.

Not available.

Upper/lower flammability or explosive

limits



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Flammability limit - lower Not available.

(%)

Flammability limit - upper Not available.

(%)

Explosive limit - lower (%)

Explosive limit - upper (%)

Vapor pressure

Vapor density

Relative density

Not available.

Not available.

Not available.

Not available.

Solubility(ies)

Solubility (water) Sparingly soluble.

Solubility (other) Methanol: Freely soluble.

Alcohol: Soluble.

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Chemical family Semisynthetic opioid; alkaloid

Molecular formula C29H41NO4.CIH

Molecular weight 504.1

pH in aqueous solution 4 - 6 Solution: 1%

10. Stability and Reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use,

storage, and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoidContact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition Irritating and/or toxic fumes or gases. Emits toxic fumes under fire

conditions. NOx. HCl.

11. Toxicological Information

products

Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness.

Skin contactKnowledge about health hazard is incomplete. **Eye contact**Knowledge about health hazard is incomplete.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical, and toxicological characteristics

Opioids: Respiratory depression. Central nervous system depression. Gastrointestinal disturbances. Mood or mental changes. Pinpoint pupils. Muscle rigidity. Seizures.

Information on toxicological effects

Acute toxicity Harmful if swallowed.



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Product	Species	Test Results
Buprenorphine Hydrochloride		
(CAS 53152-21-9)		

Oral

LD50 Mouse 800 mg/kg

261 mg/kg

Rat > 1 g/kg

60 mg/kg

Skin corrosion/irritationKnowledge about health hazard is incomplete. **Serious eye damage/eye irritation**Knowledge about health hazard is incomplete.

Respiratory or skin sensitization

Respiratory sensitization
Skin sensitization
Knowledge about health hazard is incomplete.
Knowledge about health hazard is incomplete.
Knowledge about mutagenicity is incomplete.

Mutagenicity

Ames test, Equivocal results. Chromosome aberration Result: Negative. Mouse lymphoma assay

Result: Negative.

Mutagenicity, Unscheduled DNA synthesis assay.

Result: Positive.

Carcinogenicity Knowledge about carcinogenicity is incomplete.

Carcinogenicity, No evidence for carcinogenicity.

Result: Negative. Species: Mouse

Test Duration: 86 weeks

Carcinogenicity, statistically significant increase in dose-related

interstitial cell tumors.

Species: Rat

Test Duration: 27 weeks

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Knowledge about health hazard is incomplete. Maternal use of opioids

during pregnancy may cause physical dependence in the fetus leading to respiratory difficulties and withdrawal symptoms (dehydration, irritability, tremors, excessive crying, diarrhea) in the newborn.

Reproductivity

1 mg/kg/day Reproductivity, Increased skeletal abnormalities.

Result: Positive. Species: Rat

160 mg/kg/day Reproductivity, No increase in birth defects.

Result: Negative. Species: Rat

25 mg/kg/day Reproductivity, No increase in birth defects.

Result: Negative.



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Species: Rabbit

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Knowledge about health hazard is incomplete.

Aspiration hazard Based on available data, the classification criteria are not met.

Narcotic effects.

Further information Potent pharmacologically active material. Occupational exposure to

small amounts may cause physiological effects.

12. Ecological Information

Ecotoxicity The product is not classified as environmentally hazardous. However,

this does not exclude the possibility that large or frequent spills can

have a harmful or damaging effect on the environment. No data is available on the degradability of this product.

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No data available. No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion,

photochemical ozone creation potential, endocrine disruption, global

warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions Potent pharmacologically active material. Occupational exposure to

small amounts may cause physiological effects.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste codeThe waste code should be assigned in discussion between the user,

the producer and the waste disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This

material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label

warnings even after container is emptied.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

General information

It is the shipper's responsibility to determine the correct transport

classification at the time of shipment.



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15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Yes

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

Drug Enforcement Administration

(DEA) (21 CFR 1308.11-15)

Schedule II - 9064

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals

currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

Australia Australia Inventory of Chemical Substances (AICS) Yes

Canada Domestic Substances List (DSL) No



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Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Phillipines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Unites States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer The information in this SDS has been compiled from sources

considered dependable but has not been independently verified. The company cannot guarantee the accuracy of information herein, and the statements contained should not be considered an official expression. The company will not assume liability for any loss. damage, and/or expense resulting from the use and/or misuse of this

product in regard to handling, storage, and/or disposal.

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).