

# Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

CHEMTREC (24hr) 1-800-424-9300

# Section 1: Identification

Product Name Nalbuphine Hydrochloride

Commercial Name Not available

Product Use Medication: Antagonist to Narcotics.

Restrictions On Use Not available Product Code 50-2140

**Company** PCCA In case of emergency contact:

9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760

# Section 2: Hazard(s) Identification

**OSHA Haz Com:** Acute toxicity, oral Category 4 Serious eye damage/eye irritation Category 2B Specific target organ toxicity,

CFR 1910.1200 single exposure Category 3

Signal Word WARNING

HARMFUL IF SWALLOWED OR IF INHALED. MAY CAUSE DROWSINESS OR DIZZINESS

Pictogram(s) or Symbol(s)



#### Precautionary Statement(s):

**Prevention** Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when

using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a

well-ventilated area

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel

unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell Rinse mouth

Store in a well-ventilated place. Keep container tightly closed Store locked up

**Disposal** Dispose of contents and container to an approved waste disposal plant in accordance with local,

regional, national and international regulations as applicable

# Section 3: Composition/Information on Ingredients

Substance/Mixture Substance

Components Nalbuphine Hydrochloride

 % By Weight
 100

 CAS#
 23277-43-2

 Molecular Weight
 393.91 g/mole

 Chemical Formula
 C21-H27-N-O4.CIH

Synonym(s) opioid agonist/antagonist analgesic \*(5.alpha.,6. alpha.)-17-(Cyclobutylmethyl)-4, 5

Alpha-Epoxymorphinan-3, 6 Alpha, 14-Triol Hydrochloride; Nalbuphine Hydrochloride Analytical Research

Standard -(FOR R&D USE ONLY)

**Mixtures** 

NameCAS#% by WeightTLV/PELLC50/LD50Nalbuphine Hydrochloride23277-43-2100N/AORAL (LD50): Acute: 1100 mg/kg [Dog].

(Revision Date 3/25) Page 1 of 5



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

#### Section 4: First-Aid Measures

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical

attention

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get

medical attention if irritation develops.

**Eye Contact** Flush eyes with water for 15 minutes. Get medical attention.

Ingestion Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Obtain medical attention.

Symptoms/Effects

**Acute** May be habit forming Causes eye irritation Mild eye irritation Bitter taste in mouth Dryness of mouth Central

nervous system effects Central nervous system depression Dizziness Headache Nervousness Restlessness Slurred speech vertigo Drowsiness Hallucinations Mood swings Euphoria May cause depression Sweating and flushing of skin Upset stomach May cause nausea and vomiting Abdominal pain Blurred vision Pinpoint

pupils (myosis) May affect the cardiovascular system

Delayed May be habit forming Causes eye irritation Mild eye irritation Bitter taste in mouth Dryness of mouth Central

> nervous system effects Central nervous system depression Dizziness Headache Nervousness Restlessness Slurred speech vertigo Drowsiness Hallucinations Mood swings Euphoria May cause depression Sweating and flushing of skin Upset stomach May cause nausea and vomiting Abdominal pain Blurred vision Pinpoint

pupils (myosis) May affect the cardiovascular system

#### **Immediate Medical Attention**

Treat symptomatically. Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

#### Section 5: Fire-Fighting Measures

#### Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.

## **Unsuitable Extinguishing Media**

Not available.

# **Products of Combustion**

Carbon Monoxide, Carbon Dioxide. Nitrogen oxides (NOx). hydrogen chloride gas.

#### Firefighters Special Equipment and Precautions

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective

# Section 6: Accidental Release Measures

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid dust formation. Remove all sources of ignition. Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent from entering into soil, ditches, sewers, waterways, and/or ground water. Methods and material for containment and cleaning up: Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading. Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

# Section 7: Handling and Storage

Handling: Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials. Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice Storage: Technical Measures/Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Hygroscopic. Protect from moisture. Store away from incompatible materials. Incompatible Materials: Strong oxidizing agents

# Section 8: Exposure Controls/Personal Protection

(Revision Date 3/25) Page 2 of 5





# **Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Exposure Limits
Engineering Controls

Not available.

**Personal Protection** 

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Eye protection: Goggles or Safety glasses with side-shields. Skin and body protection: Long sleeved clothing, Chemical resistant apron, Gloves Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent. Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

(Revision Date 3/25) Page 3 of 5



# Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

# Section 9: Physical and Chemical Properties

Appearance Solid. Crystalline powder. Powder. Color: Orange

Odor Odorless.
Odor Threshold Not available

228-235 °C/442.4-455 °F = n Not available **Melting Point** pН Freezing Point Not available. **Vapor Pressure** Not applicable **Boiling Point/Range** Not available. Not available. **Vapor Density** Not available. Not available. **Decomposition temperature Viscosity Partition Coefficient:** Not available. **Evaporation Rate** Not available.

n-octanol/water

Flash Point Not available. Autoignition temperature Not available.

Flammability Not available.

Flammability or Explosive Limits:

Lower Not available.

Upper Not available.

Solubility(ies) Soluble in Water

Other Molecular/Formula weight (g/mole): 393.95 Density (g/cm3): 1.30

#### Section 10: Stability and Reactivity

Reactivity Not available

Chemical Stability Hygroscopic. Stable under recommended storage conditions.

Hazardous Polymerization Hazardous polymerization does not occur

Conditions to Avoid Heat. Avoid dust formation. Exposure to moisture. Exposure to moist air. Incompatible

materials.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). Hydrogen chloride gas

### Section 11: Toxicological Information

### RTECS QD3181000

# **Acute Toxicity**

Other LD50 or LC50information = 1100 mg/kg LD50 oral Dog Harmful if swallowed. May be habit forming. Ingestion may cause nausea, vomiting. May cause abdominal pain. May cause upset stomach. May cause dry mouth. It may cause central nervous system depression. May cause central nervous system effects (affect behavior). May affect behavior/central nervous system (dizziness, headache). May affect behavior/central nervous system (analgesia). May affect behavior/central nervous system (euphoria, slurred speech, stupor). It may affect behavior/central nervous system (drowsiness). May cause flushing and sweating. May cause bad taste in the mouth. May cause skin rash, redness or itching. May cause blurred or foggy vision. May cause tingling, pricking feeling, or numbness in the extremities. May affect respiration (dyspnea - difficulty breathing and shortness of breath). May affect eyes (pinpoint pupils). May affect the cardiovascular system.

# Skin Corrosion/Irritation

May cause skin irritation

# Serious Eye Damage/Irritation

Causes eye irritation. Mild eye irritation

# Respiratory or Skin Sensitization

Not available

# **Germ Cell Mutagenicity**

Not available

# Carcinogenicity

Not available

(Revision Date 3/25) Page 4 of 5



For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

# Reproductive Toxicity

Not available

## **Routes of Entry**

Ingestion. Inhalation.

# Symptoms Related to Exposure

May cause skin irritation. Causes eye irritation. Mild eye irritation. Irritating to respiratory system. Harmful if swallowed

# **Potential Health Effects**

Not available

Not available Target Organ(s)

### Section 12: Ecological Information

#### **Ecotoxicity**

Not available

# Persistance and Degradability

Not available

#### **Bioaccumulative Potential**

Not available

# Mobility in Soil

Not available

### Other Adverse Effects

Not available

# Section 13: Disposal Considerations

#### **Waste Disposal**

Waste must be disposed of in accordance with Federal, State and Local regulation

#### **Disposal of Container**

Empty containers should be taken for local recycling, recovery or waste disposal

#### **Other Considerations**

Not available

# Section 14: Transport Information

# **DOT Classification**

DOT Not regulated as dangerous goods. IATA Not regulated as dangerous goods. IMDG Not regulated as dangerous goods.

# Section 15: Regulatory Information

# Regulations

Not available.

#### Other

Not available.

#### Section 16: Other Information

Labeling Info Label Hazard Warning WARNING! May be harmful if swallowed. May be harmful if inhaled. Label Precautions Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Label First Aid Immediately flush eyes with plenty of water for at least 15 minutes. Flush skin thoroughly with water. If gastfume/vapor /dust/mist from the material Is inhaled, remove the affected person. Immediately to fresh air. Get medical attention if irritation develops or persists. IF SWALLOWED: Immediately call a POISON CENTER or doctor /physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. Rinse mouth thoroughly. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

(Revision Date 3/25) Page 5 of 5