

# SAFETY DATA SHEET

Cat# 2684-100, 500 Clonidine hydrochloride

SDS DATE: Aug 13, 2014

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CLONIDINE HYDROCHLORIDE  
**PRODUCT CODES:** Cat# 2684-100, -500  
**MANUFACTURER:** BioVision, Inc.  
**ADDRESS:** 155 S. Milpitas Boulevard, Milpitas, CA 95035  
**EMERGENCY PHONE:** 858-373-8066  
**CHEMTREC PHONE:**  
**OTHER CALLS:** 408-493-1800  
**FAX PHONE:** 408-493-1801

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Product Name/Chemical Name	Description	Volume	Safety Information
CLONIDINE HYDROCHLORIDE	Solid	2684-100: 100 mg 2684-500: 500 mg	See below

## SECTION 3: HAZARDS IDENTIFICATION

Components	CAS Number	EC-No.	Molecular Weight	Chemical Formula
CLONIDINE HYDROCHLORIDE	4205-91-8	--	266.55	C <sub>9</sub> H <sub>9</sub> Cl <sub>2</sub> N <sub>3</sub> · HCl

### CLONIDINE HYDROCHLORIDE:

#### Emergency Overview:

**OSHA Hazards:** Target Organ Effect, Toxic by ingestion, Irritant, Carcinogen,

**GHS Classification:** Acute toxicity, Oral (Category 3)

**GHS Label elements, including precautionary statements**

**Pictogram:**



Danger

**Signal word:**

**Hazard statement(s):**

H301 Toxic if swallowed.

**Precautionary statement(s):**

P264 Wash hands thoroughly after handling

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

**HMIS Classification**

**Health hazard:** 2

**Flammability:** 0

**Physical hazards:** 0

**NFPA Rating**

**Health Hazard:** 2

**Fire:** 0

**Reactivity Hazard:** 0

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** Cause eye irritation.

**Ingestion:** Toxic if swallowed.

## SECTION 4: FIRST AID MEASURES

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5: FIRE-FIGHTING MEASURES

**Condition of flammability:** Not flammable or combustible.

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire fighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products:** Hazardous decomposition products formed under fire conditions— see section 10.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid dust formation. Avoid breathing vapors, mist, or gas.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Light sensitive. Keep in a dry place.

Recommended storage temperature: -20 °C.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

General industrial hygiene practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	CLONIDINE HYDROCHLORIDE
Appearance:	White to off-white solid
pH:	No data available
Water Solubility:	No data available
Other Solubility:	DMSO (>10 mg/ml) or H <sub>2</sub> O (>25 mg/ml)
Boiling Point (°C):	No data available
Melting Point (°C):	No data available
Flash Point (°C):	No data available
Ignition Temperature (°C):	No data available
Density:	No data available

## SECTION 10: STABILITY AND REACTIVITY

Property	CLONIDINE HYDROCHLORIDE
Chemical stability	Stable under recommended storage conditions
Conditions to avoid:	No data available
Materials to avoid:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides, nitrogen oxides, hydrogen chloride gas

## SECTION 11: TOXICOLOGICAL INFORMATION

### CLONIDINE HYDROCHLORIDE:

**Acute toxicity:** ORL-RAT LD50: 126mg/kg; IPR-RAT LD50: 91200 µg/kg; SCU-RAT LD50: 77mg/kg; IVN-RAT LD50: 29mg/kg; ORL-MUS LD50: 135mg/kg; IPR-MUS LD50: 100mg/kg; SCU-MUS LD50: 59mg/kg; ORL-DOG LD50: 30mg/kg; ORL-MKY LD50:

150mg/kg; ORL-RBT LD50: 80mg/kg

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

**Carcinogenicity:**

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IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** no data available

**Teratogenicity:** no data available

**Specific target organ toxicity – single exposure (GHS):** no data available

**Specific target organ toxicity – repeated exposure (GHS):** no data available

**Aspiration hazard:** no data available

## Potential Health Effects

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** Cause eye irritation.

**Ingestion:** Toxic if swallowed.

**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects:** no data available

**Additional information:** RTECS: NJ2490000

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## SECTION 12: ECOLOGICAL INFORMATION

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### CLONIDINE HYDROCHLORIDE:

**Persistence and degradability:** no data available

**Toxicity:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** no data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**Product:** Observe all federal, state, and local environmental regulations.

**Contaminated packaging:** Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

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### CLONIDINE HYDROCHLORIDE:

#### **DOT (US):**

UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solids, organic, n.o.s. (CLONIDINE HYDROCHLORIDE)

Reportable Quantity (RQ):

Marine pollutant: No

Poison Inhalation Hazard: No

#### **IMDG:**

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (CLONIDINE HYDROCHLORIDE)

Marine pollutant: No

#### **IATA:**

UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solid, organic, n.o.s. (CLONIDINE HYDROCHLORIDE)

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## SECTION 15: REGULATORY INFORMATION

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### CLONIDINE HYDROCHLORIDE:

**OSHA Hazards:** Target Organ Effect, Toxic by ingestion, Irritant, Carcinogen

**SARA 302 Components:** SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:** CLONIDINE HYDROCHLORIDE, CAS-No. 4205-91-8

**New Jersey Right To Know Components:** CLONIDINE HYDROCHLORIDE, CAS-No. 4205-91-8

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## EU regulations

Component	Risk Phrases	Safety Phrases
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CLONIDINE HYDROCHLORIDE	R25	S46
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## SECTION 16: OTHER INFORMATION

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### DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.