

Version: 1.0

Issued: 14 Apr 2022

### 1. Identification

Product Identifier Clonidine Hydrochloride

Other means of identification

 Internal item number
 82393-0209

 CAS number
 4205-91-8

Chemical name 2-[(2,6-Dichlorophenyl)imino]imidazolidine monohydrochloride

**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

Website www.pharmasd.com

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

## 2. Hazard(s) Identification

Physical hazards Not classified

Health hazards Acute toxicity, oral Category 3

Acute toxicity, inhalation Category 1

Specific target organ toxicity Category 1 (cardiovascular

system)

Environmental hazards Not classified

OSHA defined hazards Not classified

Label elements



Signal word Danger

Hazard statement Toxic if swallowed. Fatal if inhaled. Causes damage to organs

(cardiovascular system).

**Precautionary statement** 

**Prevention** Do not breathe dust. Wash thoroughly after handling. Use only

outdoors or in a well-ventilated area. In case of inadequate ventilation

wear respiratory protection.

Response If swallowed: Immediately call a poison center/doctor. Rinse mouth. If

inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If exposed or

concerned: Get medical advice/attention.

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

locked up.



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Disposal

Dispose of contents/container in accordance with local/regional/national/ international regulations.

Hazards not otherwise classified

(HNOC)

The physical properties of this material indicate that in large quantities

accumulated dust may be hazardous.

Supplemental information Highly potent pharmacologically active material.

### 3. Composition/Information on Ingredients

Substance				
Chemical name	Common name and synonyms	CAS number	%	
Clonidine Hydrochloride		4205-91-8	100	

#### 4. First-aid Measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a

position comfortable for breathing. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if the substance is inhaled. Call a

physician or poison control center immediately.

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.

Rinse mouth thoroughly. Do not use mouth-to-mouth method if Ingestion

> substance is ingested. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control

center immediately.

Most important symptoms/effects,

acute and delayed

Cardiovascular effects. Highly potent pharmacologically active material. Occupational exposure to small amounts may cause

physiological effects.

Indication of immediate medical attention and special treatment

needed

General Information

Provide general supportive measures and treat symptomatically

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.



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Suitable extinguishing media

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media

appropriate for surrounding materials.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a

potential dust explosion hazard.

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

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. 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

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. For waste disposal, see

section 13 of the SDS.

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

### 7. Handling and Storage

Precautions for safe handling

As a general rule, 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**



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**Industrial Use** 

Material **Type** Value Clonidine HCI (CAS 73360-54-0) **TWA** 2 micrograms/m3

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

No open handling. For laboratory operations, conduct powder handling operations in an isolator or equivalent. Put powder into solution or a tightly capped container prior to removal from containment. Isolator should be equipped with bag out ports or transfer chamber. 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

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

> 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

Thermal hazards

Hand protection Wear 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 laboratory coat and disposable sleeve covers appropriate to the task, two pairs of gloves, and safety glasses with side shields. An anteroom or transition area is recommended for gowning and degowning. 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.

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

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

engineering controls.

Wear appropriate thermal protective clothing, when necessary.

General hygiene Procedures for any use or quantity should be determined after an

considerations appropriate assessment.

### 9. Physical and Chemical Properties

**Appearance** Appearance descriptions are general information and not specific to

any lot.

Physical state Solid. Powder. Form Color White. Odor Odorless. Odor threshold Not available. Hq Not available.

Melting point/freezing point

581 - 608 °F (305 - 320 °C)



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Initial boiling point and boiling

range

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive

limits

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) Soluble.

Solubility (other) Methanol: Soluble
Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Chemical family Imidazoline.

**Dust explosion properties** 

Minimum ignition energy

(MIE) - dust cloud

30 - 100 mJ

Molecular formula C9H9Cl2N3 . HCI

Molecular weight 266.55 pH in aqueous solution 5

### 10. Stability and Reactivity

**Reactivity** The 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 avoid**Contact with incompatible materials.

**Incompatible materials** Oxidizing agents.

Hazardous decomposition NOx. Cl-. Irritating and/or toxic fumes or gases. Emits toxic fumes

under fire conditions.

### 11. Toxicological Information

products

#### Information on likely routes of exposure

**Inhalation** Fatal if inhaled.



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

Ingestion Toxic if swallowed. Based on information from the rapeutic use, this

material may cause: Cardiovascular effects.

rhythm, or heart rate. Dry mouth. Sedation.

Alpha-2 adrenergic agonists: Changes in blood pressure, heart

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

Symptoms related to the physical, chemical, and toxicological

characteristics

Information on toxicological effects

Fatal if inhaled. Toxic if swallowed. **Acute toxicity** 

**Product Species Test Results** Clonidine HCI (CAS 4205-91-8) Inhalation LC50 Rat 0.0197 mg/l Oral LD50 Mouse 135 mg/kg Rat 126 mg/kg Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Local effects

Eye irritation Result: Negative. Species: Rabbit Skin irritation Result: Irritant. Species: Rabbit Severity: Mild.

Respiratory or skin sensitization

Respiratory sensitization Knowledge about health hazard is incomplete.

Skin sensitization Based on available data, the classification criteria are not met.

Maximisation test Result: Negative. Species: Guinea pig Organ: Skin.

Germ cell mutagenicity Knowledge about mutagenicity is incomplete.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

Reproductive toxicity Based on available data, the classification criteria are not met. A

related material did not cause birth defects in animal studies. A related

material did not impair fertility in animal studies.

Specific target organ toxicity -

single exposure

Causes damage to organs (cardiovascular system).



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Specific target organ toxicity -

repeated exposure

**Aspiration hazard** 

**Further information** 

Knowledge about health hazard is incomplete.

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

Highly 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

No data available.

Bioaccumulative potential Mobility in soil

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** Dispose in accordance with all applicable regulations. Under RCRA, it

is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous

waste.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

The 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

UN number UN2811

UN proper shipping name

Transport hazard class(es)

Toxic solid, organic, n.o.s. (Clonidine Hydrochloride)

Class 6.1
Subsidiary risk Packing group

**IATA** 

UN number UN2811

UN proper shipping name

Transport hazard class(es)

Toxic solid, organic, n.o.s. (Clonidine Hydrochloride)

Class 6.1



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Subsidiary risk
Packing group
Other information

Passenger and cargo

aircraft

Cargo aircraft only

Allowed with restrictions.

Allowed with restrictions.

Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the

IBC Code DOT; IATA



**General information** It is the shipper's responsibility to determine the correct transport

classification at the time of shipment.

## 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 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Acute toxicity (any route of exposure)

**categories** Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.



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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

### **California Proposition 65**

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. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)* Yes	
Australia	Australian Inventory of Chemical Substances (AICS)		
Canada	Domestic Substances List (DSL)	Yes	
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)	Yes	
Korea	Existing Chemicals List (ECL)	No	
New Zealand	New Zealand Inventory	Yes	
Phillipines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No	
Taiwan	Taiwan Chemical Substances Inventory (TCSI)	Yes	
Unites States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No	

<sup>\*</sup>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 regards 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).