

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

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

# Section 1: Identification

Tizanidine Hydrochloride USP **Product Name** 

5-chloro-N-(4,5-dihydro-1H-imidazol-2-yl)-2,1,3- benzothiadiazol-4- amine hydrochloride **Commercial Name** 

**Product Use** Not available Not available **Restrictions On Use** 

30-4791 **Product Code** 

**PCCA** Company 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 Reproductive Toxicity: Category 2 Specific target organ toxicity, single

CFR 1910.1200 exposure: Category 3 narcotic effects

DANGER Signal Word

Hazard Statement(s) Harmful if swallowed. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn

child. Causes damage to organs (cardiovasular system) through prolonged or repeated exposure.

## Pictogram(s) or Symbol(s)



# Precautionary Statement(s):

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Use only outdoors or in a well-ventilated area Wash thoroughly after handling Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face

protection.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Response

> Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention. Rinse mouth

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

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

# Section 3: Composition/Information on Ingredients

Substance/Mixture Substance

Tizanidine Hydrochloride Components

Pure material % By Weight 64461-82-21 CAS# 290.2 Molecular Weight

**Chemical Formula** C9H9Cl2N5S

5-chloro-4-[(2-imidazolin-2-yl) amino]- 2,1,3- benzothiadiazole hydrochloride Synonym(s)

**Mixtures** 

Name % by Weight TLV/PEL LC50/LD50 CAS# Tizanidine Hydrochloride 64461-82-21 Pure material N/A N/A

(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. Call a POISON CENTER or doctor/physician if you feel unwell.

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. Get medical attention if symptoms occur.

Symptoms/Effects

Acute Sedation. Hypotension.

Delayed Sedation. Hypotension.

# **Immediate Medical Attention**

Treatment of overdose should be symptomatic and supportive: Do not induce vomiting. Administer activated charcoal as a slurry. For hypotension, infuse 10- 20 mL/kg isotonic fluid. Administer dopamine or norepinephrine if hypotension persists. For bradycardia, administer atropine intravenously. Monitor vital signs. Monitor ECG. Monitor fluid and electrolyte status. (Meditext)

## Section 5: Fire-Fighting Measures

# Suitable Extinguishing Media

Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and materials

# Unsuitable Extinguishing Media

Not available.

#### **Products of Combustion**

Not available.

#### **Firefighters Special Equipment and Precautions**

Wear suitable protective equipment. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Cool containers exposed to flames with water until well after the fire is out.

# Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation. Wear appropriate personal protective equipment. Methods and materials for containment and cleaning up: Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Wash spill site.

### Section 7: Handling and Storage

Precautions for safe handling: As a general rule, when handling USP Reference Standards, 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. Conditions for safe storage, including any incompatibilities: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity

#### Section 8: Exposure Controls/Personal Protection

# Exposure Limits Engineering Controls

Not available.

Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures.

(Revision Date 3/25) Page 2 of 5



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

#### **Personal Protection**

Eye/face protection Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area. Skin protection Hand protection: Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy. Other: For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination. Respiratory protection: Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134). Thermal hazards Not available.

(Revision Date 3/25) Page 3 of 5



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

# Section 9: Physical and Chemical Properties

White to off-white or pale yellow powder. Solid. Powder. **Appearance** 

Odorless or faint characteristic odor. Odor

**Odor Threshold** Not available

546.8 - 554 °F (286 - 290 °C) 4.3 - 5.3 (1% w/v solution) **Melting Point** pН

Freezing Point Not available **Vapor Pressure** Not available Not available Not available **Boiling Point/Range Vapor Density** Not available Not available **Decomposition temperature Viscosity Partition Coefficient:** Not available **Evaporation Rate** Not available

n-octanol/water

Not available. Not available **Flash Point** Autoignition temperature

**Flammability** Not available Flammability or Explosive Limits:

> Not available Lower

Not available Upper

Solubility(ies) Slightly soluble in water. Slightly soluble in methanol; insoluble in chloroform and in acetone; soluble

in fat

Not available. Other

# Section 10: Stability and Reactivity

No dangerous reaction known under conditions of normal use Reactivity

Material is stable under normal conditions **Chemical Stability** 

**Hazardous Polymerization** Not available Not available. **Conditions to Avoid** 

**Incompatible Materials** Strong oxidizing agents

**Hazardous Decomposition Products** SOx, NOx, Cl-. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire

conditions.

# Section 11: Toxicological Information

**RTECS** Not available

**Acute Toxicity** 

Harmful if swallowed. Acute Oral Mouse235 mg/kg Rabbit 98 mg/kg Rat 414 mg/kg

Skin Corrosion/Irritation

Not available.

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Not available

**Germ Cell Mutagenicity** 

Not available

Carcinogenicity

Not available

**Reproductive Toxicity** 

Suspected of damaging fertility or the unborn child.

**Routes of Entry** 

Ingestion.

(Revision Date 3/25) Page 4 of 5



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

#### Symptoms Related to Exposure

Drowsiness. Fatigue. Weakness. Dizziness. Headache. Anxiety. Hallucinations. Insomnia Burning or tingling sensations. Speech or language disturbances. Blurred vision. Dry mouth. Nausea. Vomiting. Indigestion. Stomach pain. Muscle pain. Back pain. Fever. Yellow eyes and/or skin. Painful or difficult urination.

#### **Potential Health Effects**

Sedation. Low blood pressure. Orthostatic hypotension. Liver injury. Slow heartbeat. Irregular heartbeat. Urinary tract infection. Respiratory failure. Coma.

Target Organ(s) Liver impairment. Kidney impairment. Hypotension. Heart disease. Use of oral contraceptives.

# 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

This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). 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. Dispose in accordance with all applicable regulations.

# **Disposal of Container**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

#### Other Considerations

Not available

# Section 14: Transport Information

#### **DOT Classification**

DOT Not regulated as a hazardous material by DOT.

# Section 15: Regulatory Information

### Regulations

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable. One or more components are not listed on TSCA. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical No Other federal regulations Safe Drinking Water Act (SDWA) Not regulated. Food and Drug Administration (FDA) Not regulated. 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.

# Other

Not availabe

# Section 16: Other Information

Usage: muscle relaxant

(Revision Date 3/25) Page 5 of 5