SAFETY DATA SHEET



1. Identification

Product identifier Cinacalcet Hydrochloride

Other means of identification

 Catalog number
 1133977

 CAS number
 364782-34-3

Chemical name N-[1-(R)-(-)-(1-naphthyl)ethyl]-3-[3-(trifluoromethyl)phenyl]-1-aminopropane hydrochloride

Recommended use For analytical laboratory use only.

Recommended restrictions Not for use as a drug. Not for administration to humans or animals.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameU. S. Pharmacopeia **Address**12601 Twinbrook Parkway

Rockville MD 20852-1790 United States

Telephone Technical Services 301-816-8129

Website www.usp.org
E-mail RSTECH@usp.org

Emergency phone number CHEMTREC within US & 1-800-424-9300

Canada

CHEMTREC outside US & +1 703-527-3887

Canada

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 1

Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes serious eye damage. May cause damage to organs through prolonged or repeated

exposure.

Precautionary statement

Prevention Wear eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a poison center/doctor. Get medical

advice/attention if you feel unwell.

Storage Not available.

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

Hazard(s) not otherwiseClassified (HNOC)

This product is supplied in a small quantity which does not constitute a combustible dust hazard.

The physical properties of this material indicate that in large quantities accumulated dust may be

hazardous.

Supplemental information Pharmacologically active material.

Material name: Cinacalcet Hydrochloride

USP SDS US

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3. Composition/information on ingredients

Substance

Chemical name	Common name and synonyms	CAS number	%
Cinacalcet Hydrochloride		364782-34-3	100

Information provided in the SDS is not specific to the lot provided. Refer to the label and USP Certificate/Product Information Sheet for the assigned value of a particular lot.

4. First-aid measures

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

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

Call a physician or poison control center immediately. Rinse with water. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and

delayed

active material. Occupational exposure may cause physiological effects.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically.

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.

Heart rhythm abnormalities. Gastrointestinal disturbances. Hypocalcemia. Pharmacologically

5. Fire-fighting measures

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.

No unusual fire or explosion hazards noted. General fire hazards

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6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. 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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. 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, when handling USP materials, 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. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Combustible dust clouds may be created where operations produce fine material (dust). Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.

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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

Ind	dustria	l Use

Material	Туре	Value	
Cinacalcet Hydrochloride	TWA	30 micrograms/m3	
(CAS 364782-34-3)			

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Appropriate engineering

controls

For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. 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 face shield, if necessary. Eye/face protection

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

Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved **Hand protection**

or suspended in an organic solvent, wear gloves that provide protection against the solvent.

Train employees in proper gowning and degowning practices. Wear lab coat. Base the choice of Other

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.

Respirators are generally not required for laboratory operations. Use a tight-fitting full-face Respiratory protection

respirator with HEPA filters for spill cleanup. Choose respiratory protection appropriate to the task

and the level of existing engineering controls.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Handling practices in this SDS are recommendations for laboratory use of USP materials.

9. Physical and chemical properties

Appearance Appearance descriptions are general information and not specific to any USP lot.

Physical state

Crystalline powder. **Form** White, Off-white, Color Not available. Odor Not available. **Odor threshold** Not available.

352.4 - 363.2 °F (178 - 184 °C) Melting point/freezing point

Initial boiling point and boiling Not available.

range

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 (%) Not available. Explosive limit - upper (%) Not available.

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Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Insoluble.

Solubility (other) 2-Propanol: Slightly soluble.

Ethanol (95%): Soluble.

Methanol: Soluble.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Dust explosion properties

Kst 256

Minimum ignition energy (MIE) - dust

cloud

50 - 100 mJ

Molecular formulaC22H22F3N.HCIMolecular weight393.87 g/mol

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 avoid Contact with incompatible materials. Minimize dust generation and accumulation.

Incompatible materials Oxidizing agents. Reducing agents.

Hazardous decomposition

products

Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx, F-, Cl-.

11. Toxicological information

Information on likely routes of exposure

InhalationKnowledge about health hazard is incomplete.Skin contactKnowledge about health hazard is incomplete.

Eye contact Causes serious eye damage.

Ingestion Based on information from therapeutic use, this material may cause: Hypocalcemia.

Symptoms related to the physical, chemical and toxicological characteristics Hypocalcemia. Gastrointestinal disturbances. Loss of appetite. Chest pain. Weakness. Muscle pain. Dizziness. Seizures. Numbness, tingling, or burning sensations. Cough. Skin rash.

Shortness of breath.

Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritationBased on available data, the classification criteria are not met.

Serious eye damage/eye

irritation

Causes serious eye damage.

Local effects

32 mg Eye Irritation

Result: Caused corneal opacity, iridial irritation, and severe conjunctival irritation. Corneal opacity and conjunctival irritation

were still present 21 days after treatment.

Species: Rabbit Severity: Corrosive. Skin Irritation, 0.5 g

Result: Caused only a very slight erythema reaction in 1/3 animals at the 4 hours. No other dermal irritation was observed.

Species: Rabbit

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Respiratory or skin sensitization

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

Skin sensitization, 3 ml Result: Mild sensitization. Species: Guinea pig

Germ cell mutagenicity Knowledge about mutagenicity is incomplete.

Mutagenicity

Ames bacterial mutagenicity assay

Result: Not genotoxic.

Chinese Hamster Ovary (CHO) cell HGPRT forward mutation

assay

Result: Not genotoxic.

CHO cell chromosomal aberration assay, with and without

metabolic activation Result: Not genotoxic.

In vivo mouse micronucleus assay

Result: Not genotoxic.

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

<= 200 mg/kg/day Standard lifetime dietary carcinogenicity

bioassays

Result: No increase of tumors.

Species: Mouse

<= 35 mg/kg/day Carcinogenicity Result: No increase of tumors.

Species: Rat Carcinogenicity

Result: No tumor findings. Species: Mouse, Rat Test Duration: 2 years

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

Reproductivity

Reprodictivity, Female: 5, 25, and 75 mg/kg/day; Males: Unknown doses were given weeks prior to mating.

Result: No effects were observed in male or female fertility at 5 and 25 mg/kg/day. At 75 mg/kg/day, there were slight

adverse effects. Species: Rat

Specific target organ toxicity - Knowledge about health hazard is incomplete.

single exposure

Specific target organ toxicity - May cause damage to organs through prolonged or repeated exposure.

repeated exposure

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

Further information Pharmacologically active material. Occupational exposure may cause physiological effects.

12. Ecological information

Ecotoxicity

Product Species Test Results

Cinacalcet Hydrochloride (CAS 364782-34-3)

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) 0.085 mg/l, 96 hours

Persistence and degradability Not readily biodegradable.

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Bioaccumulative potential No data available.

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

Dispose in accordance with all applicable regulations.

Hazardous waste code

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 Sin

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN3077

UN proper shipping name Transport hazard class(es) Environmentally hazardous substance, solid, n.o.s. (Cinacalcet Hydrochloride)

Class 9
Subsidiary risk Packing group III

IATA

UN number UN3077

UN proper shipping name Transport hazard class(es) Environmentally hazardous substance, solid, n.o.s. (Cinacalcet Hydrochloride)

Class 9
Subsidiary risk Packing group III

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

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

the IBC Code

DOT: IATA

Not applicable.



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.

Toxic Substances Control Act (TSCA)

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

Not regulated.

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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

chemical

Classified hazard Serious eye damage or eye irritation categories Respiratory or skin sensitization

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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)	No
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	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United 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, including date of preparation or last revision

 Issue date
 09-26-2022

 Revision date
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Further information Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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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).

Disclaimer

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