

TCI (Shanghai) DEVELOPMENT CO., LTD.

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Manidipine Dihydrochloride

Product code: M2225

Company: TCI (Shanghai) DEVELOPMENT CO., LTD.

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Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS Not classified

HEALTH HAZARDS

Acute toxicity (Oral)
Category 3
Acute toxicity (Dermal)
Category 3
Acute toxicity (Inhalation)
Category 3
ENVIRONMENTAL HAZARDS
Not classified

Label elements

Pictograms or hazard symbols



Signal word Danger

Hazard statements Toxic if swallowed, in contact with skin or if inhaled

Precautionary statements

[Prevention] Avoid breathing dust, fume, mist, vapors or spray.

Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Wash hands and face thoroughly after handling.

Wear protective gloves, protective clothing.

[Response] IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off immediately all contaminated clothing and wash

it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call

a POISON CENTER or doctor.

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

Store locked up.

[Disposal] Dispose of contents and container in accordance with local, regional, national

regulations.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: Manidipine Dihydrochloride

Percent: >98.0%(HPLC)(T) **CAS RN:** 89226-75-5

Synonyms: 1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic Acid

2-[4-(Diphenylmethyl)-1-piperazinyl]ethyl Methyl Ester Dihydrochloride,

2-[4-(Diphenylmethyl)-1-piperazinyl]ethyl Methyl

1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylate

Dihydrochloride C35H38N4O6 · 2HCl

4. FIRST AID MEASURES

Chemical Formula:

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty

of soap and water. Call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and

air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Dry chemical, foam, water spray, carbon dioxide.

media:

Specific hazards arising from Take care as it may decompose upon combustion or in high temperatures to

the chemical: generate poisonous fume.

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable

fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the

surroundings: Remove movable containers if safe to do so.

Special protective equipment When extinguishing fire, be sure to wear personal protective equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions,
Use personal protective equipment. Keep people away from and upwind of
spill/leak. Entry to non-involved personnel should be controlled around the leakage

protective equipment and spill/leak. Entry to non**emergency procedures:** area by roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for containment and cleaning

Sweep dust to collect it into an airtight container, taking care not to disperse it.

Adhered or collected material should be promptly disposed of, in accordance with

up: appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective

equipment. Prevent dispersion of dust. Wash hands and face thoroughly after

handling

Use a closed system if possible. Use a local exhaust if dust or aerosol will be

generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any

incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator,

etc. Use respirators approved under appropriate government standards and follow

local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal - Powder

Colour: White - Slightly pale yellow

Odour:

pH:

No data available

No data available

No data available

211°C (dec.)

Roiling point/range:

Flash point:

No data available

No data available

Flammability or explosive

limits:

Lower: No data available
Upper: No data available
Relative density: No data available

Solubility(ies):

[Water] Insoluble

[Other solvents]

Very soluble: Dimethyl sulfoxide(DMSO)

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous No special reactivity has been reported.

reactions:

Incompatible materials: Oxidizing agents

Hazardous decomposition

products:

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: orl-rat LD50:156 mg/kg

ipr-rat LD50:49 mg/kg scu-rat LD50:199 mg/kg

Skin corrosion/irritation: No data available
Serious eye No data available

damage/irritation:

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC = No data available
NTP = No data available

Reproductive toxicity: orl-rat TDLo:136 mg/kg (multigeneration)

RTECS Number: US7975300

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:

Crustacea:

Algae:

Persistence / degradability:

Bioaccumulative

No data available
No data available
No data available
No data available

potential(BCF): Mobility in soil

Log Pow:
Soil adsorption (Koc):
Henry's Law (PaM ³/mol):
No data available
No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class: 6.1: Toxic substance.

UN-No: 2811

Proper shipping name: Toxic solid, organic, n.o.s.

Packing group:

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

The reference company name of written contents

Company: TCI (Shanghai) DEVELOPMENT CO., LTD.

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This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated

afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.