MEDICAL ISOTOPES, Inc.

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MATERIAL SAFETY DATA SHEET

Medical Isotopes, Inc.
Company Code: L074
Sheet No. 99447
Revision Date:10/10/22

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: 4,5,6,7-Tetrahydrothieno[2,3-c]pyridine Hydrochloride
CATALOG NUMBER: 99447
CAS No: 28783-38-2

SECTION 2. CHEMICAL INFORMATION (UNLABELED)

CHEMICAL NAME: 4,5,6,7-Tetrahydrothieno[2,3-c]pyridine Hydrochloride
Synonyms: 4,5,6,7-TETRAHYDROTHIENO[2,3-C]PYRIDINE HYDROCHLORIDE
4,5,6,7-TETRAHYDROTHIENO[2,3-C]PYRIDINE HCL
4H,5H,6H,7H-thieno[2,3-c]pyridine hydrochloride
4,5,6,7-tetrahydrothieno[2,3-c]pyridinehydrochloride

SECTION 3. HAZARDS IDENTIFICATION

Known Hazards:

GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)
Not a hazardous substance by GHS.

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)
GHS Hazard Statements
Not a hazardous substance according to GHS.

SECTION 4. FIRST AID MEASURES

General Advice: If medical attention is required, show this safety data sheet to the doctor**.**

If Inhaled
If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.
In Case of Skin Contact
Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.
In Case of Eye Contact
Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.
If Swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from the Substance or Mixture
Carbon oxides, Nitrogen oxides, Sulfur oxides, Hydrogen chloride

5.3 Advice for Firefighters
Wear self contained breathing apparatus for fire fighting if necessary

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING & STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.
Keep in a dry place.

7.3 Specific End Uses
For scientific research and development only. Not for use in humans or animals

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control Parameters
Contains no components with established occupational exposure limits.
Appropriate Engineering Controls
A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.
Personal Protective Equipment
All recommendations below are advisory in nature and a risk assessment should be performed by the employer/
Skin Protection
Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements. Gloves used for incidental exposures (splash protection) should be designated as “chemical resistant” by EU standard EN 374 with the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.

Suggested gloves: AnsellPro Sol-Vex nitrile gloves style 37-175, 15 mil thickness.
Penetration time has not been determined.
Gloves used for prolonged direct exposure (immersion) should be designated “chemical resistant” as per EN 734 with the resistance codes corresponding to the anticipated use of the material.
Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.
Penetration time has not been determined.
These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

Body Protection
Fire resistant (Nomex) lab coat or coveralls.

Respiratory Protection
Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

A) Appearance White solid
B) Odor No data available
C) Odor Threshold No data available
D) pH No data available
E) Melting Point/Freezing Point >140°C (dec.)
F) Initial Boiling Point/Boiling Range No data available
G) Flash point No data available
H) Evaporation Rate No data available
I) Flammability (Solid/Gas) No data available
J) Upper/Lower Flammability/Explosive Limits No data available
K) Vapor Pressure No data available
L)Vapor Density No data available
M) Relative Density No data available
N) Solubility DMSO, Methanol
O) Partition Coefficient: n-octanol/water No data available

P) Auto-Ignition Temperature No data available
Q) Decomposition Temperature No data available **R) Viscosity** No data available
S) Explosive Properties No data available **T) Oxidizing Properties** No data available

SECTION 10. STABILITY & REACTIVITY

10.3 Possibility of Hazardous Reactions No data available
10.4 Conditions to Avoid No data available
10.5 Incompatible Materials Strong oxidizing agents

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

A) Acute Toxicity No data available
B) Skin Corrosion/Irritation No data available
C) Serious Eye Damage/Irritation No data available
D) Respiratory or Skin Sensitization No data available
E) Germ Cell Mutagenicity No data available
F) Carcinogenicity No data available
G) Reproductive Toxicity/Teratogenicity No data available
H) Single Target Organ Toxicity - Single Exposure No data available
I) Single Target Organ Toxicity - Repeated Exposure No data available
J) Aspiration Hazard No data available
K) Potential Health Effects and Routes of Exposure
Inhalation May be harmful if inhaled. May cause respiratory tract irritation**.**
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity No data available.
12.2 Persistance and Degradability No data available.
12.3 Bioaccumulative Potential No data available.
12.4 Mobility in Soil No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Via licensed disposal company. Dispose of according to federal, state/province and local regulations.

13.1 Waste Treatment Methods

A) Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding
the disposal and destruction of this material are followed.

B) Contaminated Packaging

Dispose of as above.

C) Other Considerations

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

SECTION 14. TRANSPORT INFORMATION

14.1 UN Number
DOT (US): N/A IATA: N/A IMDG: N/A ADR/RID: N/A

14.2 UN Proper Shipping Name
DOT (US)/IATA: Not dangerous goods IMDG/ARD/RID: Not dangerous goods

14.3 Transport Hazard Class(es)
DOT (US): N/A IATA: N/A IMDG: N/A ADR/RID: N/A

14.4 Packing Group
DOT (US): N/A IATA: N/A IMDG: N/A ADR/RID: N/A

14.5 Environmental Hazards

DOT (US): None IATA: None IMDG: None ADR/RID: None

14.6 Special Precautions for User None

SECTION 15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

A) Canada

DSL/NDSL Status: This product is not listed on the Canadian DSL/NDSL.

B) United States

TSCA Status: This product is not listed on the US EPA TSCA.

C) European Union

ECHA Status: This product is not registered with the EU ECHA.

15.2 Chemical Safety Assessment No data available

SECTION 16. OTHER INFORMATION

16.2 List of Abbreviations

LD50 Median lethal dose of a substance required to kill 50% of a test population.
LC50 Medial lethal concentration of a substance required to kill 50% of a test population.
LDLo Lowest known lethal dose
TDLo Lowest known toxic dose
IARC International Agency for Research on Cancer
NTP National Toxicology Program
RTECS Registry of Toxic Effects of Chemical Substances

16.2

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. MEDICAL ISOTOPES, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

For Chemical Emergency
Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night

DOMESTIC NORTH AMERICA 800-424-9300
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)