

MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description PYRIDOXAMINE:2HCL (VITAMIN B6) UNLABELED

Cambridge Isotope Laboratories, Inc. 50 Frontage Rd ANDOVER, MA 01810 USA

E-mail cilsales@isotope.com Web Site www.isotope.com

Phone Numbers

Emergency Contact Chemtrec

Emergency Phone 1-800-424-9300 (24 hours)

Customer Service

Phone

1-800-322-1174 (8:30-5:30 EST)

Transportation 1-202-483-7616 (24 hours)

2 HAZARDS IDENTIFICATION

OSHA Hazards

Irritant

GHS Classification

Skin irritation (Category 2) Eye irritation (Category 2A)

Specific Target Organ Toxicity - Single exposure (Category 3)

GHS Label Information

Signal Word Warning

Hazards Identification

Exclamation mark

Hazard Statement(s)

Causes skin irritation.

Causes serious eye irritation.

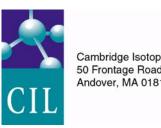
May cause respiratory irritation.

Precautionary Statement(s)

Avoid breathing dust/fume/gas/mist/vapours/spray.

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Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with soap and water.

IF INHALED: Remove victim to fresh air. Keep at rest in a comfortable position. IF IN EYES: Rinse with water for several minutes. Remove contact lenses.

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

HMIS Ratings

Physical 0 Flammability 0 2 Health

NFPA Codes

Fire 0 Health 2 0 Reactivity

Potential Health Effects

Eyes Causes eye irritation.

Ingestion May be harmful if swallowed.

May be harmful if inhaled. Causes respiratory tract irritation. Inhalation

Skin May be harmful if absorbed through the skin. Causes skin irritation.

COMPOSITION / INFORMATION ON INGREDIENTS 3

Composition / Information on Ingredients

Synonyms 4-(Aminomethyl)-5-hydroxy-6-methyl-3-pyridinemethanoldihydrochloride

Chemical Formula C8H12N2O9.2HCI

Molecular Weight 241.11

CAS No. 524-36-7 (Unlabeled)

EC No. 208-357-6

FIRST AID MEASURES

First Aid Measures

Eyes Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

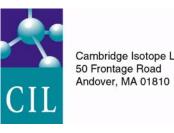
Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

Inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

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Skin Wash off with soap and plenty of water. Consult a physician.

Additional Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of

Information dangerous area.

FIRE FIGHTING MEASURE 5

Fire Fighting Measures

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

General Hazard Not flammable or combustible.

Fire Fighting Equipment

Wear self contained breathing apparatus for fire fighting if necessary.

ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

Personal Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Precautions Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental

Precautions

Do not let product enter drains.

Methods and materials for

closed containers for disposal.

containment and

cleanup

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable,

7 HANDLING AND STORAGE

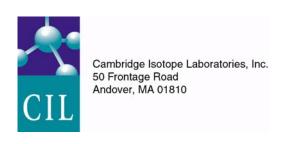
Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate Handling

exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for Safe Storage

Store in freezer (-20 C). Protect from light. Storage



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8 EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Protecton

Eyes - Face Wear safety glasses with side shields (or goggles) and a face shield.

Skin Choose body protection according to the amount and concentration of the dangerous substance at

the work place.

Respiratory When appropriate, use NIOSH/CEN approved respirator.

Protective Clothing Wear suitable protective clothing and gloves.

Work Hygienic Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

Practices and at the end of workday.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form Powder

Color Light Brown

Odor No data available
Odor Threshold No data available

pH No data available

Melting Point 224 - 226 °C (435 - 439 °F) - dec.

Boiling Point No data available
Flashpoint No data available
Evaporation Rate No data available
Lower Explosion No data available

Limit

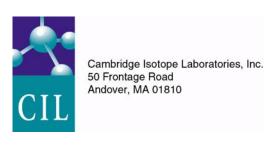
Upper Explosion No data available

Limit

Vapor Pressure
Vapor Density
Solubility in Water
Partition Coefficient
Auto Ignition
No data available
No data available
No data available
No data available

Temperature

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STABILITY AND REACTIVITY 10

Stability and Reactivity

Stable if stored under recommended conditions. **Chemical Stability**

Possibility of

Not available

Hazardous Reactions

Conditions to Avoid Not available

Hazardous

Formed under fire conditions: Carbon oxides, nitrogen oxides (NOx),

decomposition products

Hydrogen chloride gas

Materials to avoid Strong oxidizing agents

TOXICOLOGICAL INFORMATION 11

Acute Toxicity

LD50 Oral Rat 7,500 mg/kg Remarks: Behavioral: Convulsions or effect on seizure threshold.

Serious

No data available

Damage/Eye Irritation

Skin No data available

Corrosion/Irritation

Inhalation No data available

Respiratory or Skin

Sensitization

Not available

Germ Cell

Not available

Mutagenicity

Carcinogenicity Not available

IARC No component of this product present at levels greater than or equal to 0.1% is identifiable as

probable, possible, or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identifiable as a

carcinogen or potential carcinogen by ACGIH.

NTP No component of this product present at levels greater than or equal to 0.1% is identifiable as a

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known or anticipated carcinogen by NTP.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive

Toxicity

Not available

Specific Target Organ Toxicity

Single Exposure Inhalation - May cause respiratory irritation.

Repeated Exposure No data available

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

investigated.

Other Information

RTECS UV1230000

12 **ECOLOGICAL INFORMATION**

Toxicity

Persistance and Degradability

Not available

Bioaccumulative

Not available

Mobility in Soil

Potential

Not available

PBT and vPvB Assessment

Not available

Other Adverse

Not available

Effects

DISPOSAL CONSIDERATIONS 13

Disposal Considerations

Waste materials should be disposed of under conditions which meet Federal, State, and Local **Product Disposal**

environmental control regulations.

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TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

Special Shipping

Not dangerous goods.

Notes

15 **REGULATORY INFORMATION**

Regulatory Information

Irritant

SARA

Sara 302 No chemicals in this material are subject to the reporting requirements.

Component

No chemicals in this material are subject to the reporting requirements. Sara 313

Component

SARA 311/312 Hazards

Acute (Y/N) Υ

STATE REGULATIONS

Massachusetts No

Right to Know

Pennsylvania Right Yes

to Know

New Jersey Right Yes

to Know

California This product does not contain any chemicals known to the State of California to cause cancer,

birth defects, or any other reproductive harm. Proposition 65

Canada

DSL Status All components are on the Canadian DSL list.

EU

Irritant Hazard

Safety Statements

Do not breathe gas/fumes/vapour/spray.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.



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After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Use only in well-ventilated areas.

Dispose of this material and its container at hazardous or special waste collection point.

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Risk Statements

Irritating to eyes, respiratory system and skin.

16 OTHER INFORMATION

Additional MSDS Information

This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Approved On 11/25/13 1

Version Number