

1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description FAPYGUANINE (FORMYL-13C, 99%; 4-AMINO-5-AMIDO-15N2, 98%)

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 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.

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 Health 2

NFPA Codes

Fire 0 Health 2 Reactivity 0

Potential Health Effects

Eyes Causes eye irritation.

Ingestion May be harmful if swallowed.

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

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

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients

Chemical Formula *CC4H7*N2N3O2

Molecular Weight 172.12 CAS No. 202406-91-5

4 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.

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

physician.

Skin Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical

attention if symptoms occur. Wash clothing before reuse.

Additional

Information

Move out of dangerous area. Consult a physician and show this safety data sheet.



FIRE FIGHTING MEASURE 5

Fire Fighting Measures

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

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 dust. Ensure adequate

ventilation. Evacuate personnel to safe areas. Precautions

Methods and Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for

materials for disposal.

containment and

cleanup

7 HANDLING AND STORAGE

Conditions for Safe Storage

Store at room temperature away from light and moisture. Storage

EXPOSURE CONTROL / PERSONAL PROTECTION 8

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 Wear a MSHA/NIOSH approved (or equivalent) full-face piece airline respirator in the positive

pressure mode with emergency escape provisions.

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.

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MATERIAL SAFETY DATA SHEET

PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form Powder

Color Beige

pΗ No data available Melting Point No data available **Boiling Point** No data available Flashpoint No data available Lower Explosion No data available

Limit

Upper Explosion

Limit

No data available

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

Temperature

10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability Stable if stored under recommended conditions.

Conditions to Avoid Not available

Hazardous decomposition

products

Formed under fire conditions: Carbon oxides, nitrogen oxides

Materials to avoid Strong oxidizing agents

TOXICOLOGICAL INFORMATION 11

Acute Toxicity

No data available Serious

Damage/Eye Irritation

Skin No data available

Corrosion/Irritation



No data available Inhalation

Respiratory or Skin

Sensitization

Not available

Germ Cell Mutagenicity 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

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.

Signs and Symptoms of Exposure

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

Other Information

General Comments Not available

Not available

12 **ECOLOGICAL INFORMATION**

Toxicity

Persistance and Degradability

Not available

Bioaccumulative

Potential

Not available

Mobility in Soil

Not available

PBT and vPvB Assessment

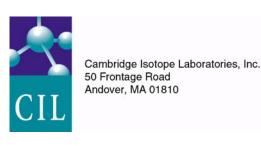
Not available

Other Adverse

Not available

Effects

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MATERIAL SAFETY DATA SHEET

13 **DISPOSAL CONSIDERATIONS**

Disposal Considerations

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

environmental control regulations.

14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

Special Shipping

Notes

Not dangerous goods.

REGULATORY INFORMATION 15

Regulatory Information

Irritant

SARA

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

Component

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

Component

SARA 311/312 Hazards

Υ Acute (Y/N)

STATE REGULATIONS

Massachusetts No

Right to Know

Yes

Pennsylvania Right to Know

New Jersey Right

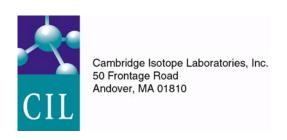
Yes

to Know

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

Proposition 65 defects, or any other reproductive harm.

Canada



DSL Status

All components are on the Canadian DSL list.

ΕU

Hazard Irritant

Safety Statements

Keep locked up.

Keep container in a well-ventilated place.

Do not breathe gas/fumes/vapour/spray.

Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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 07/05/12

Version Number