1. Identification of substance:
Product name: Pyridoxal isonicotinoyl hydrazone

2. Composition/data on components:
Formula: $C_{14}H_{14}N_{4}O_{3}$
Molecular Weight: 286.29
No ingredients are hazardous according to OSHA criteria.

3. Hazards identification:
Emergency Overview
OSHA Hazards
No known OSHA hazards
Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

HMIS Classification
Health hazard: 0
Flammability: 0
Physical hazards: 0
NFPA Rating
Health hazard: 0
Fire: 0
Reactivity Hazard: 0

Potential Health Effects
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation. May be harmful if swallowed.

4. First aid measures:

- **After Inhalation:** If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration
- **After skin contact:** flush with copious amounts of water; remove contaminated clothing and shoes; call a physician
- **After eye contact:** check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician
- **After swallowing:** if swallowed, wash out mouth with copious amounts of water; call a physician
5. Fire fighting measures:

**Conditions of flammability**
Not flammable or combustible.

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**
Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

6. Accidental release measures:

**Personal precautions**
Avoid dust formation. Avoid breathing vapors, mist or gas.

**Environmental precautions**
Do not let product enter drains.

**Methods and materials for containment and cleaning up**
Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage:

**Precautions for safe handling**
Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage**
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: Store at -20° C
Keep in a dry place. Keep in a dry place.

8. Exposure controls and personal protection:

**Personal protective equipment** as follows:
Contains no substances with occupational exposure limit values.

**Respiratory protection**
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye protection
Use equipment for eye protection tested and approved under appropriate government
standards such as NIOSH (US) or EN 166(EU).

Skin and body protection
Choose body protection in relation to its type, to the concentration and amount of dangerous
substances, and to the specific work-place. The type of protective equipment must be
selected according to the concentration and amount of the dangerous substance at the
specific workplace.

Hygiene measures
General industrial hygiene practice.

9. Stability and reactivity:

Chemical stability
Stable under recommended storage conditions.
Possibility of hazardous reactions
no data available
Conditions to avoid
no data available
Materials to avoid
Strong acids, Strong bases

10. Toxicological information:

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is
identified 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
identified 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 identified
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.
11. Ecological information:

General notes: no data available

12. Disposal consideration:

Dispose of in accordance with prevailing country, federal, state and local regulations

13. Transport information:

DOT:
Proper shipping name: none
Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

IATA class:
Proper shipping name: none
Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

14. Regulations:

OSHA Hazards
No known OSHA hazards

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components
Recombinant Analog human

New Jersey Right To Know Components
Recombinant Analog human

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm