

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Pyridoxal 5'-phosphate hydrate

Product Number : P9255
Brand : SigmaCompany : Sigma-Aldrich Canada, Ltd
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Pyridoxal 5-phosphate
3-Hydroxy-2-methyl-5-([phosphonoxy]methyl)-4-
pyridinecarboxaldehyde
PLP
CodecarboxylaseFormula : C₈H₁₀NO₆P · xH₂O
Molecular Weight : 247.14 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Pyridoxal 5'-(dihydrogen phosphate) 4-Phenylazobenzoyloxycarbonyl-Pro-Leu-Gly-Pro-D-Arg-OH dihydrate			
853645-22-4	200-208-3	-	-

3. HAZARDS IDENTIFICATION

WHMIS Classification

Not WHMIS controlled.

Not WHMIS controlled.

HMIS Classification

Health Hazard: 0
Flammability: 0
Physical hazards: 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.
Ingestion : May be harmful if swallowed.

4. FIRST AID MEASURES

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If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : no data available
Ignition temperature : no data available

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

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

Storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

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

For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : crystalline
Colour : light yellow

Safety data

pH : no data available
Melting point : 140 - 143 °C (284 - 289 °F)
Boiling point : no data available
Flash point : no data available
Ignition temperature : no data available
Lower explosion limit : no data available
Upper explosion limit : no data available
Water solubility : no data available

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents, Strong bases, Strong acids

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

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.

Potential Health Effects

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12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

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no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

TSCA Status

On TSCA Inventory

DSL Status

All components of this product are on the Canadian DSL list.

WHMIS Classification

Not WHMIS controlled.

Not WHMIS controlled.

16. OTHER INFORMATION

Further information

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