


SAFETY DATA SHEET
Pyridoxal 5 Phosphate (P5P)
PRODUCT # 6350

1. IDENTIFICATION

1.1 Product identifier	
GHS Product Identifier	Pyridoxal-5-Phosphate monohydrate
Chemical Name	3-HYDROXY-2-METHYL-5-((PHOSPHONOOXY)METHYL)-4-PYRIDINECARBOXALDEHYDE MONOHYDRATE;
Synonyms	PYRIDOXAL 5'-MONOPHOSPHATE PYRIDOXAL 5'-PHOSPHATE PYRIDOXAL 5-PHOSPHATE PYRIDOXAL-5-PHOSPHORIC ACID VITAMIN B6 3-hydroxy-2-methyl-5-((phosphonooxy)methyl)-4-pyridinecarboxaldehyd 3-hydroxy-2-methyl-5-[(phosphonooxy)methyl]-4-pyridinecarboxaldehyd apolonb(sub6) apolonb6
Product/Mixture Name (If Applicable)	NA
Percentage of Ingredients in Product/Mixture (If Applicable)	NA
CAS No.	41468-25-1
EINECS No.	200-208-3
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	Dietary supplement
Uses advised against	None known
1.3 Details of the supplier of the safety data sheet	
In Case of Emergency: Chemtrec 1 (800) 424-9300 (24 hours) NSW Poisons Information Centre: 131 126 (24 hours) Distributor identification Distributor: Bella Corp Trading Pty Ltd Address: 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: bellacorp@bellacorp.com.au	

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	
Skin Irritation	Category 2
Eye Irritation	Category 2
2.1.2 Directive 67/548/EEC & Directive 1999/45/EC	
Xi Irritant	R36/38: Irritating to eyes and skin.
2.2 Label elements	
2.2.1 Label elements: According to Regulation (EC) No. 1272/2008 (CLP)	
GHS Product Identifier	Pyridoxal-5-Phosphate monohydrate
Hazard pictogram(s)	
Signal word(s)	Warning
Hazard statement(s)	H315: Causes skin irritation. H319: Causes eye irritation
Precautionary statement(s)	P280: Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405: Store locked up.
2.2.2 Label elements: According to Directive 67/548/EEC & Directive 1999/45/EC	
2.3 Other hazards: Not applicable	
2.4 Additional Information	

3. COMPOSITION & INFORMATION ON INGREDIENTS

3.1 Substances				
EC Classification No. 1272/2008				
Hazardous ingredient(s)	%W/W	CAS No.	EC No.	Hazard statement(s)
Pyridoxal-5-Phosphate monohydrate	98 %+	41468-25-1	200-208-3	Skin Irrit. 2 H315 Eye Irrit. 2 H319
EC Classification No. 67/548/EEC				
Hazardous ingredient(s)	%W/W	CAS No.	EC No.	Classification and Risk Phrases
Pyridoxal-5-Phosphate monohydrate	98 %+	41468-25-1	200-208-3	Xi - Irritant R36/38
3.3 Additional Information: For full text of H/P phrases see section 16.				

4. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Obtain medical attention. Remove patient from exposure. Give oxygen if breathing difficult. Apply artificial respiration if necessary.
Skin Contact	Obtain medical attention. Remove contaminated clothing immediately and wash affected skin with water or soap and water.
Eye Contact	Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.
Ingestion	Obtain immediate medical attention. If swallowed, rinse mouth with water (only if the person is conscious).
4.2 Most important symptoms and effects, both acute and delayed: Irritation, Coughing, Increased difficulty in breathing.	
4.3 Indication of the immediate medical attention and special treatment needed: Increased difficulty in breathing.	

5. FIREFIGHTING MEASURES

5.1 Extinguishing media	
Suitable Extinguishing Media	Extinguish with carbon dioxide, dry chemical, alcohol-resistant foam or waterspray. As appropriate for surrounding fire.
Unsuitable Extinguishing Media	Do not use water jet.
5.2 Special hazards arising from the substance or mixture: No available.	
5.3 Advice for firefighters: Self-contained breathing apparatus to be worn if involved in fire. Water spray should be used to cool containers	

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Put on protective clothing. Avoid inhalation of dusts.	
6.2 Environmental precautions: Do not allow to enter drains, sewers or watercourses.	
6.3 Methods and material for containment and cleaning up: Vacuum or sweep up spilled material. Avoid generation of dust. Transfer to a lidded container for disposal or recovery. To be disposed of as hazardous waste.	
6.4 Reference to other sections: See Section: 8 (Exposure controls / PPE) & 13 (Disposal)	

7. HANDLING & STORAGE

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of dusts. Follow the principles of good occupational hygiene to control personal exposures.	
7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed, dry and in a cool well-ventilated place. Keep away from heat and sources of ignition.	
Storage Condition	Store in well-closed, light-resistant container.
Storage Life	Three years.
Incompatible materials	Not available.
Other information	Avoid prolonged storage. Use as soon as possible.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 Control parameters	
8.1.1 Occupational Exposure Limits :	LEL (8 hr TWA mg/m ³) LEL (8 hr TWA mg/m ³)
WEL: Workplace Exposure Limit (UK HSE EH40)	10 mg/m ³ (Respirable Dust) 4 mg/m ³ (Inhalable Dust)
8.2 Exposure controls	
8.2.1 Appropriate engineering controls: Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded.	
8.2.2 Personal protection equipment	
Eye/face protection	Safety spectacles. Minimum standard EN166.
Skin protection (Hand protection/ Other)	Plastic or rubber gloves Minimum standard EN374-3. Apron or other light protective clothing and boots.
Respiratory protection	Provide adequate ventilation, including appropriate local extraction. Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.
Other	General hygiene measures for the handling of chemicals are applicable.
8.2.3 Environmental Exposure Controls: Do not allow to enter drains, sewers or watercourses.	

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical	
Physical State: Solid Appearance: Slightly yellow or off-white Odour: Not available. pH: 2.6~3.0 Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available Boiling Point: Not available Freezing/Melting Point: 140~145°C Decomposition Temperature: Not available Solubility: Not available Specific Gravity/Density: Not available Molecular Formula: C ₈ H ₁₀ NO ₆ P.H ₂ O Molecular Weight: 265.15	
9.2 Other information	

10. STABILITY & REACTIVITY

10.1 Reactivity	This product may discolour on exposure to light.
10.2 Chemical stability	Stable under normal temperatures and pressures. May discolor on exposure to light.
10.3 Possibility of hazardous reactions	None known.
10.4 Conditions to avoid	Incompatible materials, light, dust generation, excess heat, strong Oxidants.

10.5 Incompatible materials	Oxidizing agents, strong acids, strong bases. Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of phosphorus, irritating and toxic fumes and gases, carbon dioxide, nitrogen.
10.6 Hazardous Decomposition Product(s)	Not available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
11.1.1 Substances	
Acute toxicity	
Ingestion	LD50 :> 5000 mg/kg (rat)
Inhalation (4 hrs)	No information available
Skin Contact	No information available
Skin corrosion/irritation	Dust may cause irritation
Serious eye damage/irritation	Dust may have irritant effect on eyes
Respiratory or skin sensitization	No information available
Mutagenicity	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available
STOT-single exposure	Inhalation: Dust is irritant to the respiratory tract. Coughing. Ingestion: No information available
STOT-repeated exposure	No information available.
11.2 Other information	

12. ECOLOGICAL INFORMATION

12.1 Toxicity	
(Fish) (96hrs)	No information available.
(Daphnia magna) (48hrs)	No information available.
(Algae) (72hrs)	No information available.
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulative potential (96 hrs)	No information available.
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	No information available.
12.6 Other adverse effects	

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Material to be disposed of as hazardous waste. Incinerate under approved controlled conditions, using incinerators suitable for the disposal of noxious chemical waste. Consult an accredited waste disposal contractor or the local authority for advice.	
13.2 Additional Information	

14. TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)	
UN number	Not classified as dangerous for transport.
Proper Shipping Name	Not applicable.
Transport hazard class(es)	Not applicable.
Packing Group	Not applicable.
14.2 Sea transport (IMDG)	
UN number	Not classified as dangerous for transport.
Proper Shipping Name	Not applicable
Transport hazard class(es)	Not applicable
Packing Group	Not applicable
EmS:	F-A, S-B
Marine Pollutant	Not classified as a Marine Pollutant.
14.3 Air transport (ICAO/IATA)	
UN number	Not classified as dangerous for transport.
Proper Shipping Name	Not applicable
Transport hazard class(es)	Not applicable
Packing Group	Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1 EU regulations	
Authorisations and/or restrictions on use	None anticipated
15.1.2 National regulations	None assigned
15.2 Chemical Safety Assessment	No Chemical Safety Assessment (CSA) has been carried out

16. OTHER INFORMATION

The following sections contain revisions or new statements:
Creation date: Sep.21, 2015 Last update: Nov.08, 2022
Other: The information contained herein is offered only as a guide to the handling of this specific material. Since such information does not relate to use of the material with any other material or in any process, any person using this information must determine for himself or herself its suitability for any particular application. The buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product label.

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