OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

HISTAMINE ACID PHOSPHATE (Monohydrate) 99% (For Biochemistry)

MSDS CAS: 23297-93-0

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: Histamine bisphosphate monohydrate
CAS#: 23297-93-0
Synonym:
Chemical Name: Not available.
Chemical Formula:
Molecular Weight:
Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Histamine bisphosphate monohydrate	23297-93-0	100

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Section 3: Hazards Identification

Toxicological Data on Ingredients:: Not available.

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Acute toxicity, Oral (Category 4), H302
Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Respiratory sensitisation (Category 1), H334
Skin sensitisation (Category 1), H317
Specific target organ toxicity - single exposure (Category 3), H335
For the full text of the H-Statements mentioned in this Section, see Section 16.
Other hazards - none

Section 4: First Aid Measures

Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed
No data available.

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Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

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

Reference to other sections

For disposal see section 13.

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Section 7: Handling and Storage

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature -20 °C
Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self- contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 500 (ppm) from OSHA (PEL) [United States] TWA: 2000 (mg/m3) from OSHA (PEL) [United States] TWA: 350 CEIL: 1800 (mg/m3) from NIOSH [United States] TWA: 85 CEIL: 440 (ppm) from NIOSH [United States] TWA: 400 STEL: 500 (ppm) from ACGIH (TLV) [United States] TWA: 500 (ppm) [United Kingdom (UK)] TWA: 400 STEL: 500 (ppm) [Canada] TWA: 1640 STEL: 2049 (mg/m3) [Canada] TWA: 400 STEL: 500 (ppm) [Belgium] TWA: 200 (ppm) [Norway] TWA: 300 STEL: 500 (ppm) [Finland] TWA: 500 (ppm) [Austria]Consult local authorities for acceptable exposure limits.

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Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.
Odor: Hydrocarbon. Gasoline-like
Taste: Not available.
Molecular Weight: 100.21 g/mole
Color: Clear Colorless.
pH (1% soln/water): Not applicable.
Boiling Point: 98.4 (209.1°F)
Melting Point: -90.7°C (-131.3°F)
Critical Temperature: Not available.
Specific Gravity: 0.6838 (Water = 1)
Vapor Pressure: 5.3 kPa (@ 20°C)
Vapor Density: 3.5 (Air = 1)
Volatility: Not available.
Odor Threshold: 150 ppm
Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 4.7
Ionicity (in Water): Not available.
Dispersion Properties: See solubility in water, diethyl ether, acetone.
Solubility:
Soluble in diethyl ether, acetone. Insoluble in cold water. Soluble in alcohol. Solubility in Chloroform, Petroleum Ether, Ether,
Acetone: >10% Floats on water

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources (flames, sparks), incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents.

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Section 10: Stability and Reactivity Data (continued)

Corrosivity: Not considered to be corrosive for metals and glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Inhalation.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute toxicity of the vapor (LC50): 103000 mg/m3 4 hours [Rat].

Chronic Effects on Humans:
May cause damage to the following organs: lungs, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS).

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

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Section 11: Toxicological Information (continued)

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Causes skin irritation. It can be absorbed through the skin. Eyes: Contact with liquid may cause eye irritation. Contact with vapors is not expected to cause eye irritation. Inhalation: Inhalation of vapor or mist causes respiratory tract and mucous membrane irritation. It can affect behavior/central nervous system and cause central nervous system effects (mild excitement followed CNS depression which is characterized by headache, nausea, dizziness, hilarity, hallucinations, lightheadness, distorted perceptions, convulsions, weakness, loss of judgement and coordination, narcosis, semi-conciousness, coma and death at higher doses). It may cause cardiac effects (irregular heartbeat/cardiac arrhythmias, or heart to stop beating), and pulmonary edema. It is readily absorbed by the inhalation route. Ingestion: Causes gastrointestinal tract irritation with nausea, vomiting, swelling of the abdomen. Aspiration into the lungs can produce chemical pneumonitis. It can also affect behavior/central nervous system with symptoms paralleling those of inhalation. Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact can defat the skin and product irritation and dermatitis. Inhalation: Repeated or prolonged inhalation may affect behavior/central nervous system (symptoms similar to acute inhalation) and may produce minimal peripheral nerve damage (polyneuropathy) with numbness and tingling of the extremities in a stocking-and –glove pattern. Reversible of polyneuropathy as been reversible by a year following removal from exposure. It may also affect the brain, blood (anemia), and hearing (mild change in auditory threshold), and may also cause weight loss, Ingestion: Prolonged or repeated ingestion may affect the liver, urinary system, blood (changes in blood serum compostion).

Section 12: Ecological Information

Eco toxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

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Section 13: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations

Section 14: Transport Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Section 15: Other Regulatory Information

Federal and State Regulations:

Connecticut hazardous material survey.: n-heptane Illinois toxic substances disclosure to employee act: n-heptane Rhode Island RTK hazardous substances: n-heptane Pennsylvania RTK: n-heptane Minnesota: n-heptane Massachusetts RTK: nheptane Massachusetts spill list: n-heptane New Jersey: n-heptane California Director's List of Hazardous Substances: nheptane TSCA 8(b) inventory: n-heptane TSCA 4(a) proposed test rules: n-heptane TSCA 8(d) H and S data reporting: nheptane: Effective date: 1/26/94; Sunset date: 6/30/98

Other Regulations:

**OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the
European Inventory of Existing Commercial Chemical Substances**

Section 15: Other Regulatory Information (continued)

Other Classifications:
WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects
(TOXIC).
DSCL (EEC):
HMIS (U.S.A.):
Health Hazard: 1
Fire Hazard: 3
Reactivity: 0
Personal Protection: g
National Fire Protection Association (U.S.A.):
Health: 1
Flammability: 3
Reactivity: 0
Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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