HI 93706B-0
Phosphorus Reagent B Amino Acid Powder

Safety Data Sheet

According to Regulation (EC) No. 1907/2006
OSHA Regulation 29 CFR 1910.1200
Canadian Regulation SOR/88-66

Revision Date: 2013-08-20
Reason for Revision: Regulation (EC) No. 1272/2008 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 93706B-0 Amino Acid Powder

Application: Determination of Phosphorus in Water Samples

Company Information (USA):
Hanna Instruments, Inc.
584 Park East Dr, Woonsocket, Rhode Island, USA 02895

Technical Service Contact Information: 1-800-426-6287 (8:30AM - 5:00PM ET)
+1-401-766-4260 (8:30AM - 5:00PM ET)

USA Emergency Contact Information: 1-800-424-9300 (Chemtrec 24Hr. Emergency)

International Emergency Contact Information: +1-703-527-3887 (Chemtrec 24Hr. Emergency)

E-mail Address: tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

Harmful if swallowed. Contact with acids liberates toxic gases. Risk of serious damage to eyes.

According to Regulation (EC) No. 1272/2008:

Classification: Acute Toxicity (Category 4)
Eye Damage (Category 1)

Signal Word: **Danger**

Pictograms:

Hazard Statements: H302: Harmful if swallowed.
H318: Causes serious eye damage.
EUH031: Contact with acids liberates toxic gas.

Precaution Statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

According to Directives 67/548/EEC and 1999/45/EC:

Symbol: Xn: Harmful

R-phrases: 22-31-41: Harmful if swallowed. Contact with acids liberates toxic gases. Risk of serious damage to eyes.

S-phrases: 26-39-46: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection. If swallowed, seek medical advice immediately and show this container or label.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Sodium metabisulfite	231-673-0	7681-57-4	Acute Tox. 4 Eye Dam. 1 Xn, Xi	H302, H318, EUH031 R: 22-31-41	> 50% - < 70%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air.

After Skin Contact: Wash affected area with water. Remove contaminated clothing.

After Eye Contact: Rinse out with plenty of water. If pain persists, summon medical advice.

After Swallowing: Drink plenty of water, induce vomiting. Obtain medical attention.

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.

Special Risks:

Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: Sulfur Oxides

Special Protective Equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid inhalation of dusts. Avoid substance contact.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

Take up dry. Clean up affected area and dispose of according to local regulation.

SECTION 7: HANDLING AND STORAGE

Handling:

Avoid generation of dusts. Do not inhale substance.

Storage:

Store at room temperature (+15 to +25 °C). Tightly closed. Protect from light and moisture. Accessible only for authorized persons.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Type	*Value*	*Source*	*Type*	*Value*	*Source*
Sodium Metabisulfite					
TWA (8hr)	5 mg/m³	Belgium	TWA (8hr)	5 mg/m³	Canada (Ontario)
TWA (8hr)	5 mg/m³	Canada (Quebec)	TWA (8hr)	5 mg/m³	France
TWA (8hr)	5 mg/m³	Greece	TWA (8hr)	5 mg/m³	Portugal
TWA (8hr)	5 mg/m³	Spain	TWA (8hr)	5 mg/m³	UK

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection:

Required when dusts are generated.

Protective Gloves:

Rubber or plastic

Eye Protection:

Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:	White powder	***Odor:***	Slightly pungent	***Density at 20°C:***	NA
Melting Point:	> 150°C	***Boiling Point:***	NA	***Solubility:***	ND
pH at 20°C:	3.5 – 5.0 at 50 g/L in water	***Explosion Limit:***	NA	***Flash Point:***	NA
Thermal Decomp.:	NA				

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Strong Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Stable in the recommended storage conditions.

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

Acids, oxidizing agents

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

Quantitative data on the toxicity of this product is not available.

Potential Health Effects:

Inhalation:	Irritation of the mucous membranes, coughing, dyspnoea.
Skin Contact:	Slight irritations.
Eye Contact:	irritations. Risk of serious damage to eyes.
Ingestion:	Irritations of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.
Further Data:	Further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Acute Toxicity:

Not Available

Chronic Toxicity:

Not Available

Additional Data:

APPLICABLE TO MAIN COMPONENT:
Sodium Metabisulfite: acute toxicity: LD50 (oral, rat): 1540 mg/Kg.
Non carcinogenic in animal experiments; no impairment of reproductive performance in animal experiments; no teratogenic effect in animal experiments.

SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecological effect of this product is not available.

Biological effects
APPLICABLE TO PARTIAL COMPONENT:
The following applies to Sodium Metabisulfite: harmful effect on aquatic organisms. Fish toxicity: Onchorhynchus mykiss LC50 150-200 mg/L /96 h; daphnia toxicity: Daphnia magna EC50 89 mg/L /48 h; bacterial toxicity: Ps. Putida EC50 56 mg/L /17 h.

Further Data: APPLICABLE TO PARTIAL COMPONENT:
The following applies to Sodium Metabisulfite: degradability: COD: 0.168 mg/g (calculated).

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: ***TRANSPORTATION INFORMATION***

Land:	***Sea:***	***Air:***
Not subject to transport regulations	Not subject to transport regulations	Not subject to transport regulations

SECTION 15: ***REGULATORY INFORMATION***

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.
Complies with European Council Directives 67/548/EEC and 1999/45/EC.
Complies with OSHA Regulation 29 CFR 1910.1200.
Complies with Canadian Regulation SOR/88-66

SECTION 16: ***OTHER INFORMATION***

Text of phrases under Section 3

R22: Harmful if swallowed.
R31: Contact with acids liberates toxic gas.
R41: Risk of serious damage to eyes.
H302: Harmful if swallowed.
H318: Causes serious eye damage.
EUH031: Contact with acids liberates toxic gas.

Revision Information

Revision Date:	2013-08-20
Supersedes edition of:	2012-05-04
Reason for revision:	Regulation (EC) No. 1272/2008 Compliance
Legend	NA: Not Applicable ND: Not Determined

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.