

OMEGA Engineering, Inc.
One Omega Drive, Box 4047, Stamford, CT 06907
203/359-7694 TELEX: 996404 FAX: 203/359-7770

MATERIAL SAFETY DATA SHEET

NFPA Hazard Rating:
Health - 0
Flammability - 0
Reactivity - 0

I. GENERAL INFORMATION -----

Code, Trade Name: PHA-7, Buffer Soln., pH 7.0
Chemical Name: Potassium & Sodium Phosphates
Chemical Family: Inorganic Salts

II. HAZARDOUS INGREDIENTS -----

Potassium Phosphate, Monobasic CAS #7778-77-0 < 2% W/V
TLV/PEL: Not Established TXDS: Not Established
* Sodium Phosphate, Dibasic CAS #7558-79-4 < 3% W/V
TLV/PEL: Not Established TXDS: orl-rat LD50: 17 g/kg

Carcinogenicity: None of the above listed (IARC).

III. HEALTH HAZARD DATA -----

Contact can irritate eyes, skin, mucous membranes, nasal
and respiratory tract. Ingestion may irritate GI tract.
Routes of Entry: Ingestion.

First Aid:

Eyes: Flush with water for at least 15 min; get
immediate medical assistance.

Skin: Remove contaminated clothing and wash with soap
and water.

Inhalation: Remove to fresh air & give artificial respiration
if breathing has stopped.

Ingestion: Get immediate medical attention.

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE!

IV. PHYSICAL DATA -----

Boiling Point: N/A Specific Gravity: 1.05
Vapor Density: N/A
Water Solubility: Soluble
Appearance & Odor: Clear, colorless or green liquid

V. FIRE & EXPLOSION HAZARD DATA -----

Flash Point: Nonflammable
Extinguishing Media: Use media compatible with surrounding
material.
Special Procedures: Wear self contained breathing apparatus
and protective clothing if necessary.

Unusual Fire & Explosion Hazards: None indicated.
Thermal decomposition can produce toxic fumes.

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VI. REACTIVITY DATA -----

Conditions To Avoid: None indicated.

Hazardous Combustion & Decomposition Products:
Oxides of phosphorous, K₂O, Na₂O

VII. SPECIAL PROTECTION -----

Provide adequate general and local exhaust ventilation.
Protect eyes and skin with safety goggles and gloves.
Do not get in eyes, on skin or clothing.
Wear self contained breathing apparatus in high vapor areas.
Do not breathe vapors or dust.

VIII. HANDLING AND STORAGE PRECAUTIONS -----

Keep container tightly closed.
Store in cool, dry, well ventilated area.
Keep away from ignition source, acids, oxidizers.
Wash thoroughly after handling.
Empty containers may be hazardous due to retained residue.

DOT - Not Regulated

IX. ENVIRONMENTAL PROTECTION -----

Spill Response: Absorb with sand or vermiculite and scoop up and containerize for proper disposal.

Waste Disposal: Comply with all local, state and federal regulations.

* Toxic chemical or chemicals subject to the reporting requirements of section 313, SARA Title III.

The above information is to be used only as a guide, and does not profess to be all inclusive. OMEGA Engineering, Inc. shall not be held liable for any damage resulting from the handling or contact with the above product.

N/A = Not Available

Issue Date: 8/87

Revised: 5/01

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NFPA Hazard Rating:
Health - 0
Flammability - 0
Reactivity - 0

I. GENERAL INFORMATION -----

Code, Trade Name: PHA-10, Buffer Soln., pH 10.0
Chemical Name: Sodium Borate, Decahydrate in Water
Chemical Family: Inorganic Salt in Water

II. HAZARDOUS INGREDIENTS -----

Sodium Tetraborate,	CAS #1303-96-4	0.5% W/V
TLV/PEL: TWA: 5 mg/cu.m	TXDS: orl-hmn LDLo: 709 mg/kg	
Potassium Chloride,	CAS #7447-40-7	0.4% W/V
TLV/PEL: Not Established	TXDS: orl-rat LD50: 3020 mg/kg	

Carcinogenicity: None of the above are listed (IARC).

III. HEALTH HAZARD DATA -----

May be harmful if swallowed or inhaled. May irritate eyes, skin, nasal and respiratory passages. Prolonged contact may cause allergic reaction. Ingestion may cause nausea and vomiting, headache, hair loss, and shock.
Routes of Entry: Ingestion, Inhalation.

First Aid:

Eyes: Flush with water for at least 15 min; get immediate medical assistance.

Skin: Remove contaminated clothing and wash with soap and water.

Inhalation: Move to fresh air & give artificial respiration if breathing has stopped.

Ingestion: If conscious induce vomiting. Get medical help.

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE!

IV. PHYSICAL DATA -----

Boiling Point: N/A Specific Gravity: 1.0
Vapor Density: N/A
Water Solubility: Miscible
Appearance & Odor: Clear, colorless or blue liquid

V. FIRE & EXPLOSION HAZARD DATA -----

Flash Point: Nonflammable
Extinguishing Media: Dry chemical

Special Procedures: Wear self contained breathing apparatus and protective clothing if necessary.

Unusual Fire & Explosion Hazards: None indicated.

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VI. REACTIVITY DATA -----

Conditions To Avoid: None indicated.

Hazardous Combustion & Decomposition Products:
N/A

VII. SPECIAL PROTECTION -----

Provide adequate general and local exhaust ventilation.
Protect eyes and skin with safety goggles and gloves.
Do not get in eyes, on skin or clothing.
Wear self contained breathing apparatus in high vapor areas.
Do not breathe vapors or mist.

VIII. HANDLING AND STORAGE PRECAUTIONS -----

Keep container tightly closed.
Store in cool, dry, well ventilated area.
Keep away from ignition source, acids, oxidizers.
Wash thoroughly after handling.
Empty containers may be hazardous due to retained residue.

DOT - Not Regulated

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Spill Response: Absorb with sand or vermiculite and scoop up and
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Waste Disposal: Comply with all local, state and federal
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