

OMEGA Engineering, Inc.  
One Omega Drive, Box 4047, Stamford, CT 06907  
203/359-7694 TELEEX: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-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

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.

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  
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