



BJ SERVICES COMPANY
MATERIAL SAFETY DATA SHEET

Region
USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME: **BA-10A**
ITEM NUMBER : 499695
CHEMICAL DESCRIPTION: Polyvinyl alcohol CAS# 9002-89-5
PRODUCT USE: Cement bonding additive
SUPPLIER: BJ Services Company
ADDRESS: 11211 FM 2920
Tomball, TX 77375
**EMERGENCY TELEPHONE NUMBER (800)424-9300 for CHEMTREC
(202)483-7616 Alaska and International**
PREPARED BY: BJ Services Environmental Group
(281)351-8131
DATE PREPARED: August 4, 2000 Supersedes: May 20, 1999

HMIS HAZARD INDEX

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0
PERSONAL PROTECTION: e

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS #	PERCENT	HAZARD
No hazardous ingredients	N.A.	N.A.	N.A.

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD): N.A.
UPPER EXPLOSION LIMIT(% BY VOL): N.A.
LOWER EXPLOSION LIMIT(% BY VOL): N.A.
AUTO-IGNITION TEMPERATURE: N.E.
EXTINGUISHING MEDIA: Water spray
SPECIAL FIRE FIGHTING PROCEDURES: Treat as Class A fire.
EXPLOSION DATA: Polyvinyl alcohol powder forms an explosive mixture in air. The explosive hazard is dependent on particle size, and the fine dust present has a rating between 1.0 and 2.0.
HAZARDOUS COMBUSTION PRODUCTS: May evolve acetaldehyde, crotonaldehyde, acetone and other unknown, toxic products.

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Eye contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: There are no known dermal effects arising from short-term exposure.
SKIN ABSORPTION: Not absorbed by skin.
EYE CONTACT: Eye contact may cause irritation and redness.
INHALATION: Inhalation of high levels of vapors or mists may cause light-headedness, dizziness, headaches or unconsciousness.
INGESTION: Material has a low oral toxicity rating. However, it is not a natural food and its metabolism is unknown.

CHRONIC OVEREXPOSURE EFFECTS: None are anticipated. Dust may aggravate symptoms of bronchitis or may provoke asthmatic responses in persons with asthma who are sensitive to dusts.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
No hazardous ingredients	N.E.	N.E.

CARCINOGENICITY, REPRODUCTIVE EFFECTS:
Not listed as carcinogenic-IARC, NTP, or OSHA

TERATOGENICITY, MUTAGENICITY:
No effects listed.

TOXICITY STUDIES:
LD(50) 10,000 mg/kg (oral rat)
LC(50) N.E.

SECTION V - FIRST AID PROCEDURES

FOR EYES: Immediately flush with plenty of water for at least 15 minutes. If irritation persists, contact a physician.
FOR SKIN: Flush skin with water or wash with mild soap and water if available. If irritation persists, contact a physician.
FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.
FOR INGESTION: Ingestion is not considered to present an emergency and no specific measures are recommended.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR: White to off-white granular powder. No odor
SPECIFIC GRAVITY: N.A. Bulk density = 40 lbs/cu.ft.
VAPOR PRESSURE: N.A.
VAPOR DENSITY (air=1): N.A.
EVAPORATION RATE: N.A.
BOILING POINT: N.A.
FREEZING POINT: N.A.
SOLUBILITY IN H2O: Soluble in hot water

pH: 4 - 8 (4% solution)

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY:	Stable
INCOMPATIBLE MATERIALS:	Strong oxidizing agents such as hydrogen peroxide or potassium permanganate will oxidatively cleave the polymer chain and reduce the molecular weight.
HAZARDOUS POLYMERIZATION:	Does not polymerize
HAZARDOUS DECOMPOSITION PRODUCTS:	Decomposition is insignificant below 200°C. Above 200°C, the material yellows and begins to decompose. Higher temperatures accelerate decomposition and lead to evolution of acetaldehyde, crotonaldehyde, acetone and other unknown toxic products.

SECTION VIII - SPECIAL/PERSONAL PROTECTION

VENTILATION:	The use of mechanical ventilation is recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air movement.
RESPIRATORY PROTECTION:	Dust mask
PROTECTIVE GLOVES:	Rubber or neoprene
EYE PROTECTION:	Goggles
OTHER PROTECTIVE EQUIPMENT:	Eyewash bottles or other rinsing equipment should be easily accessible.

SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES:	Sweep up and place in suitable containers for reuse or disposal. Thoroughly wash area with cold water to remove residual material. Caution! Floors may become extremely slippery when wet. Avoid contamination of waterways.
WASTE DISPOSAL:	If this product becomes a waste, it does not meet the requirements of a RCRA waste. Always dispose of according to all local/state/and federal regulations.
HANDLING & SPECIAL EQUIPMENT:	Do not breathe dust.
STORAGE REQUIREMENTS:	Store in a cool, dry place. Avoid accumulating dust. Avoid suspending dust in air.

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

PROPER SHIPPING NAME:	Not DOT Regulated
HAZARD CLASS:	N.A.
UN/NA NUMBER:	N.A.

PACKING GROUP W/ "PG": N.A.
SUBSIDIARY RISK: N.A.
REPORTABLE QUANTITY (RQ): N.A.
EMERGENCY RESPONSE GUIDE #: N.A.

ENVIRONMENTAL INFORMATION

SARA TITLE III

SECTION 302/304 This product does not contain ingredients listed as an Extremely Hazardous Substance.
SECTION 311/312 Immediate
SECTION 313 This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

OTHER REGULATORY INFORMATION

TSCA INVENTORY: All of the components in this appear on the TSCA inventory.
CALIFORNIA PROP 65: None of the chemicals on the current Proposition 65 list are known to be present in this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.