



BJ SERVICES COMPANY
MATERIAL SAFETY DATA SHEET

Region
USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME: **A-10, Gypsum**
ITEM NUMBER: 100318, 428020
CHEMICAL DESCRIPTION: Mixture of calcium sulfate hemihydrate (Plaster of Paris) and Portland cement
PRODUCT USE: Special additive
SUPPLIER: BJ Services Company
ADDRESS: 11211 FM 2920
Tomball, TX 77375
EMERGENCY TELEPHONE NUMBER (800)424-9300 for CHEMTREC (703)527-3887 for International
PREPARED BY: BJ Services Environmental Group
(281)351-8131
DATE PREPARED: March 21, 2006
Supersedes: May 11, 2001

HMIS HAZARD INDEX

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

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS #	PERCENT	HAZARD
Plaster of Paris	26499-65-0	> 90	Irritant
Portland cement	65997-15-1	< 5	Irritant
Crystalline silica	14808-60-7	< 5	Carcinogen

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD): Non-combustible
UPPER EXPLOSION LIMIT(% BY VOL): N.A.
LOWER EXPLOSION LIMIT(% BY VOL): N.A.
AUTO-IGNITION TEMPERATURE: N.A.
EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: None
EXPLOSION DATA: N.A.
HAZARDOUS COMBUSTION PRODUCTS: Above 1450°C could produce calcium oxide and sulfur dioxide.

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Skin and eye contact, inhalation, ingestion

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: When mixed with water, this material hardens and then slowly becomes hot. Because of the high alkalinity of Portland cement, burns may occur 12 to 48 hours after exposures of 1 to 6 hours. Burns may occur without obvious pain at the time of exposure. Portland cement in dry form will not cause an alkaline burn by itself. Direct, prolonged or repeated contact with the skin may cause irritation. Rubbing of this product against the skin can result in abrasions. Can cause chemical and mechanical irritation to the skin, especially in sensitive individuals.

SKIN ABSORPTION: Not absorbed by skin.

EYE CONTACT: Portland cement is a strongly alkaline material. Contact with eyes will cause irritation and possible corrosion damage, burning and corneal edema. Particulates will also cause mechanical irritation.

INHALATION: Irritating and may be corrosive to respiratory tract. Inhalation of dusts from this product can irritate the nose, throat, lungs and upper respiratory tract and may cause coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation.

INGESTION: If ingested, caustic burns may occur in the mouth, esophagus or stomach. Portland cement may be corrosive to the digestive tract. Plaster of paris is non-toxic, however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region.

CHRONIC OVEREXPOSURE EFFECTS: Bronchitis and emphysema have been reported after many years of exposure to Portland cement. Prolonged or repeated exposure to respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Plaster of Paris	10mg/m3	15 mg/m3 (total dust) 5 mg/m3 (respirable dust)
Portland cement	10 mg/m3	15 mg/m3 (total dust) 5 mg/m3 (respirable dust)
Crystalline silica	0.1 mg/m3 (respirable dust)	0.1 mg/m3 (respirable dust)

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

TERATOGENICITY, MUTAGENICITY:

No effects known

TOXICITY STUDIES:

LD(50) N.E.
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:	Promptly wash skin thoroughly with copious amounts of water for at least 15 minutes or longer depending on the concentration, amount and duration of exposure. If irritation or pain persists after washing, contact physician. If cement penetrates the clothing, promptly remove the clothing and wash skin. Wash clothing before wearing again. If skin is dry, a commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing.
FOR INHALATION:	Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, consult a physician.
FOR INGESTION:	Get medical attention immediately. Portland cement is highly alkaline and may cause burns to the esophagus and stomach. This product contains gypsum plaster. Plaster of paris hardens when wetted and, if ingested, may result in obstruction. Drinking glycerin, gelatin solutions or large volumes of water may delay hardening.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR:	Gray powder; low odor
SPECIFIC GRAVITY:	2.7 – 3.0
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:	0.15 %
pH:	12

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY:	Stable
INCOMPATIBLE MATERIALS:	None known
HAZARDOUS POLYMERIZATION:	Does not polymerize
HAZARDOUS DECOMPOSITION PRODUCTS:	Above 1450°C could produce calcium oxide and sulfur dioxide.

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:	Not typically necessary under normal conditions of use. Avoid creating dust. Wear a NIOSH/MSHA-approved dust respirator in poorly ventilated areas and/or if TLV is exceeded.
PROTECTIVE GLOVES:	Work gloves
EYE PROTECTION:	Safety glasses or 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. Do not flush down drains. If washed down, may plug drains. If already mixed with water, scrape up and place in container.

WASTE DISPOSAL: If this product becomes a waste it does not meet the requirements of a RCRA hazardous waste. Always dispose of according to all local/state/and federal regulations.

HANDLING & SPECIAL EQUIPMENT: Avoid dust inhalation and exposure to dust. Keep dry.

STORAGE REQUIREMENTS: Keep dry. Dew point conditions or other conditions causing presence of liquid will harden this material during storage.

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, delayed

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 product 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.

