



BJ SERVICES COMPANY
MATERIAL SAFETY DATA SHEET

Region
USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME: **S-8, Silica Flour**
ITEM NUMBER : 499648, 100121
CHEMICAL DESCRIPTION: Silica flour
PRODUCT USE: Sand
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: November 9, 2000 Supersedes: December 1992

HMIS HAZARD INDEX

HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0
PERSONAL PROTECTION: e

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS #	PERCENT	HAZARD
Silica	14808-60-7	100	Respiratory irritant

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.A.
EXTINGUISHING MEDIA: N.A. Material does not burn.
SPECIAL FIRE FIGHTING PROCEDURES: None
EXPLOSION DATA: N.A.
HAZARDOUS COMBUSTION PRODUCTS: None

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: No effects
 SKIN ABSORPTION: Not absorbed by skin.
 EYE CONTACT: Eye contact may cause irritation and redness.
 INHALATION: Shortness of breath and reduced pulmonary function.
 INGESTION: None

CHRONIC OVEREXPOSURE EFFECTS: Excessive inhalation of dust may result in respiratory disease, including silicosis, pneumoconiosis and pulmonary fibrosis.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Silica	0.1 mg/m3 (respirable dust)	10 mg/m3

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

The International Agency for Research on Cancer (IARC) has evaluated that there is "sufficient evidence for the carcinogenicity of crystalline silica to experimental animals" and "limited evidence" with respect to humans.

TERATOGENICITY, MUTAGENICITY:

No effects listed.

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: 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: Probably not necessary, consult a physician if symptoms should occur.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR: White fine powder (flour), no odor
 SPECIFIC GRAVITY: 2.65
 VAPOR PRESSURE: N.A.
 VAPOR DENSITY (air=1): N.A.
 EVAPORATION RATE: N.A.
 BOILING POINT: 4046°F
 FREEZING POINT: N.A.
 SOLUBILITY IN H2O: Insoluble
 pH: N.A.

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY:	Stable
INCOMPATIBLE MATERIALS:	Silica will dissolve in hydrofluoric acid and produce a corrosive gas--silicon tetrafluoride. Contact with powerful oxidizing agents like fluorine, chlorine, trifluoride, manganese trioxide and oxygen difluoride may cause fires.
HAZARDOUS POLYMERIZATION:	Does not polymerize
HAZARDOUS DECOMPOSITION PRODUCTS:	None

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 under normal conditions. Dust respirator if high concentrations exist.
PROTECTIVE GLOVES:	Rubber
EYE PROTECTION:	Goggles
OTHER PROTECTIVE EQUIPMENT:	Eyewash bottles or other rinsing equipment should be easily accessible.

SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES:	Collect using a dustless method (water or vacuum).
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 creation of respirable dust. Use adequate ventilation. Do not permit dust to accumulate. Clean clothing that has become dusty.
STORAGE REQUIREMENTS:	Store in a cool, dry, well ventilated area. Do not permit accumulation of dusts.

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 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.