



BJ SERVICES COMPANY
MATERIAL SAFETY DATA SHEET

Region
USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME: **XLW-32**
ITEM NUMBER: 499630, 499796
CHEMICAL DESCRIPTION: Boric oxide in methanol
PRODUCT USE: Crosslinker
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 10, 2000 Supersedes: June 14, 1999

HMIS HAZARD INDEX

HEALTH: 2
FLAMMABILITY: 3
REACTIVITY: 0
PERSONAL PROTECTION: b

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS #	PERCENT	HAZARD
Methanol	67-56-1	< 90	Flammable
Boric oxide	1303-86-2	< 20	Toxic

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD): 68°F (TCC)
UPPER EXPLOSION LIMIT(% BY VOL): N.E.
LOWER EXPLOSION LIMIT(% BY VOL): N.E.
AUTO-IGNITION TEMPERATURE: N.E.
EXTINGUISHING MEDIA: CO₂, dry chemical, water spray/fog, or foam. Use water to keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal.
SPECIAL FIRE FIGHTING PROCEDURES: Do not enter confined fire space without proper personal protective equipment including NIOSH approved self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode. Do not inject a solid stream of water or foam into hot, burning pools; this may cause splattering and increase fire intensity. Evacuate personnel to a safe area. Keep unnecessary people away.

EXPLOSION DATA:

This material is volatile and readily gives off vapors that may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Containers may explode from internal pressure if confined to fire. Keep containers cool. Keep unnecessary people away.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, carbon monoxide and carbon dioxide

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Skin and eye contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: May produce skin irritation, redness, peeling, defatting and dermatitis.
SKIN ABSORPTION: Exposure to this material can result in absorption through skin causing a health hazard.
EYE CONTACT: May cause moderate irritation, including burning sensation, tearing, redness, swelling and blurred vision.
INHALATION: Overexposure may cause coughing, shortness of breath, dizziness, intoxication and collapse. Can cause nasal and respiratory irritation, weakness, fatigue, headache, and possible unconsciousness and even death.
INGESTION: Can cause gastrointestinal irritation, acidosis, nausea, vomiting, diarrhea, ocular toxicity ranging from diminished visual capacity to complete blindness, and death.

CHRONIC OVEREXPOSURE EFFECTS: May cause liver abnormalities, kidney damage, eye damage, lung damage, brain damage and nervous system damage.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Methanol	N.E.	200 mg/m3
Boric oxide	N.E.	10 mg/m3

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

TERATOGENICITY, MUTAGENICITY:
No effects listed

TOXICITY STUDIES:
LD(50) N.E.
LC(50) N.E.

SECTION V - FIRST AID PROCEDURES

FOR EYES: Flush eyes immediately with large amounts of water for at least 15 minutes. Lift lower and upper lids occasionally. Get medical attention.

FOR SKIN: Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

FOR INHALATION: Remove to fresh air. If breathing is labored, give oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

FOR INGESTION: Call a physician immediately. Give victim a glass of water. DO NOT induce vomiting unless instructed by a physician or poison control center. Never give anything by mouth to an unconscious person.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR: Clear, colorless liquid; alcohol odor

SPECIFIC GRAVITY: 0.885

VAPOR PRESSURE: N.E.

VAPOR DENSITY (air=1): N.E.

EVAPORATION RATE: N.E.

BOILING POINT: N.E.

FREEZING POINT: N.E.

SOLUBILITY IN H₂O: Complete

pH: N.A.

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: Stable

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents, strong alkalies, and strong mineral acids.

HAZARDOUS POLYMERIZATION: Does not polymerize

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce smoke, carbon monoxide and carbon 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: If workplace exposure limits of product or any component is exceeded, an NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure organic vapor type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

PROTECTIVE GLOVES: Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)

EYE PROTECTION: Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of

OTHER PROTECTIVE EQUIPMENT: contact lenses is not recommended.
Eyewash bottles or other rinsing equipment should be easily accessible.

SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES: Eliminate sources of ignition. Persons not wearing suitable personal protective equipment should be excluded from area of spill until clean-up has been completed. Shut off source of spill if possible to do so without hazard. Prevent material from entering sewers or watercourses. Provide adequate ventilation. Contain spilled materials with sand or earth. Recover undamaged material for reuse or reclamation. Place all collected material and spill absorbents into DOT approved containers.

WASTE DISPOSAL: If this material becomes a waste it does meet the requirements of a RCRA hazardous waste with the waste code D001. Always dispose of according to all local/state/and federal regulations.

HANDLING & SPECIAL EQUIPMENT: Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Keep away from heat sparks, and open flames and never use a cutting torch on or near container or explosion may result. Vapors may travel to areas away from the work site and ignite. Do not transfer to improperly marked container. Do not use pressure to empty container. Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving container when being emptied.

STORAGE REQUIREMENTS: Keep container closed and away from heat, sparks, and open flames.

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

PROPER SHIPPING NAME: Flammable liquids, n.o.s. (contains methanol)
HAZARD CLASS: 3
UN/NA NUMBER: UN1993
PACKING GROUP W/ "PG": PG II
SUBSIDIARY RISK: N.A.
REPORTABLE QUANTITY (RQ): N.A.
EMERGENCY RESPONSE GUIDE #: 128

ENVIRONMENTAL INFORMATION

SARA TITLE III

SECTION 302/304 This product does not contain ingredients listed as an Extremely Hazardous Substance.

SECTION 311/312 Immediate, Fire, Delayed

SECTION 313 This product does contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals:
Methanol 67-56-1 <90%

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.
