

MATERIAL SAFETY DATA SHEET

FORSCH POLYMER CORPORATION  
3870 NIAGARA STREET  
DENVER, COLORADO 80207

IMPORTANT: BEFORE OPENING ANY FORSCH POLYMER PACKAGES, READ WARNING LABELS AND FOLLOW ALL PRECAUTIONS

TELEPHONE NUMBER: (303) 322-9611

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SECTION 1

FORSCH POLYMER CORP.  
3870 NIAGARA STREET  
DENVER, CO 80207

PRODUCT NUMBER: FDA LIMITED 88A LIQUID URETHANE  
PRODUCT NAME: POL 4090B  
CHEMICAL TYPE: POLYOL

EMERGENCY NUMBER: 303-548-7716

DATE OF REVISION : November 1999

HAZARD RATING: (4) EXTREME (3) HIGH (2) MODERATE (1) SLIGHT (0) INSIGNIFICANT

TOXICITY: NA FIRE: NA REACTIVITY: NA SPECIAL: NA

SECTION 2

HAZARDOUS COMPONENTS

C.A.S. NO.	PERCENT	(ACGIH) TLV	( OSHA) PEL	( AGGIH) STEL
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PEL/TLV NOT ESTABLISHED FOR THIS MATERIAL

SUSPECTED CANCER AGENT: YES \_\_\_\_\_ NO  X

SECTION 3

PHYSICAL DATA

BOILING POINT	:	572 DEG F @ 760.00 mm Hg
VAPOR DENSITY (AIR=1):	:	NA
VAPOR PRESSURE	:	< .01 M HG @ 68 DEGREES FAHRENH.
SPECIFIC GRAVITY	:	1.14 @ 104.00 DEGREES FAHRENH.
% VOLATILE BY VOLUME	:	NA
EVAPORATION RATE	:	NA

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SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : 320 DEGREES FAHRENHEIT -  
U.E.L. : N/A

**EXTINGUISHING MEDIA:** REGULAR FOAM OR ALCOHOL FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM ( EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

**FIRE FIGHTING PROCEDURES:** WEAR SELF CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRE, WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT AND POSSIBLY ENDANGER THE LIFE OF THE FIRE FIGHTER, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.

**HAZARDOUS DECOMPOSITION PRODUCTS:** MAY FORM TOXIC MATERIALS: CARBON DIOXIDE AND CARBON MONOXIDE, NITROGEN COMPOUNDS, VARIOUS HYDROCARBONS.

SECTION 5 HEALTH HAZARD DATA

**ACUTE TOXICITY:**

**EYE CONTACT:** CAN CAUSE MODERATE IRRITATION, REDNESS, TEARING.

**SKIN CONTACT:** PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS.

**INHALATION:** EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, CENTRAL NERVOUS SYSTEMS EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE AND POSSIBLE UNCONSCIOUSNESS, AND EVEN DEATH.

**INGESTION:** CAN CAUSE GASTRINTSETINAL IRRITATION, NAUSEA, VOMITTING AND DIARRHEA.

SECTION 6 FIRST AID PROCEDURES

**EYE CONTACT:** FLUSH WITH WATER FOR AT LEAST 15 MINUTES HOLDING EYELID OPEN. GET MEDICAL ATTENTION.

**SKIN CONTACT:** WASH THOROUGHLY WITH WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHES BEFORE REUSE AND DISCARD CONTAMINATED LEATHER ARTICLES. GET MEDICAL ATTENTION IF EFFECT SUCH AS SWELLING OR REDDENING OCCURS.

**INHALATION:** REMOVE TO FRESH AIR IF EFFECTS OCCUR AND ADMINISTER OXYGEN IF NECESSARY. GET MEDICAL ATTENTION IF EFFECT PERSIST.

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**INGESTION:** IMMEDIATELY DRINK TWO GLASSES OF WATER AND INDUCE VOMITTING BY EITHER GIVING IPEACAC SYRUP OR PLACING FINGER AT BACK OF THROAT. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

**PRIMARY ROUTES OF ENTRY:** INHALATION, SKIN CONTACT.

**SECTION 7 REACTIVITY DATA**

**STABILITY:** STABLE

**INCOMPATIBILITY:** AVOID BRINGING INTO CONTACT WITH STRONG OXIDIZING MATERIALS OR EPOXY RESINS UNDER UNCONTROLLED CONDITIONS.

**HAZARDOUS POLYMERIZATION:** CANNOT OCCUR.

**SECTION 8 SPILL OR LEAK PROCEDURES**

**ACTION TO BE TAKEN:** AVOID CONTACT WITH MATERIAL. ABSORB SPILL WITH CLAY OR DIATOMACEOUS EARTH AND SHOVEL INTO A DISPOSAL CONTAINER, REMOVE ANY SURROUNDING CONTAMINATED SOIL. WASH PAVED AREAS WITH WATER, BEING CERTAIN THAT THIS DILUTED MATERIAL IS NOT FLUSHED INTO STORM DRAINS OR WATER SUPPLIES. WEAR APPROPRIATE PROTECTIVE EQUIPMENT. (SEE BELOW)

**WASTE DISPOSAL METHOD:** DISPOSE OF AS HAZARDOUS WASTE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

**SECTION 9 SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** NOT REQUIRED UNDER NORMAL CONDITIONS OF USE. IF MACHINING OR SANDING SOLID PRODUCT, WEAR DUST MASK, OR RESPIRATOR.

**EYE PROTECTION** : CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED. HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER.)

**GLOVES** : WEAR RESISTANT GLOVES, SUCH AS; POLYVINYL ALCOHOL.

**VENTILATION** : PROVIDE SUFFICIENT MECHANICAL (GENERAL AND / OR LOCAL EXHAUST ) VENTILATION TO MAINTAIN EXPOSURE BELOW LEVEL OF OVER EXPOSURE ( FROM KNOWN, SUSPECTED OR APPARENT ADVERSE EFFECTS.)

**OTHER PROTECTIVE EQUIPMENT:** NORMAL WORK CLOTHES COVERING ARMS AND LEGS.

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**SECTION 10**

**SPECIAL PRECAUTIONS**  
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CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCTS RESIDUES. ( VAPOR, LIQUID AND / OR SOLIDS.) ALL HAZARDOUS PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

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**DISCLAIMER**  
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