

# CONCRETE FORM BIO-RELEASE

## Applications

Use On Bare Plywood, Plywood Faced Handset Forms, Steel Forms, HDO, MDO, Plastic, and Fiberglass. Distance between form and spray tip is constant; typically between 12 to 18 inches. For best results, use 30 to 35 psi. Pressures higher than 40 PSI will generally result in unwanted airborne particulates. A fan spray tip is preferred over the conical spray tip, and fan nozzles should be typically between 40 degrees and 80 degrees.

Use on forms in service and in storage.

Rusty forms, used as is, will promote sticking and staining. Rust should be removed, normally by steel brush grinders, and the forms seasoned before returning to production.

## Advantages

Prevents bonding of concrete to form surfaces.

- Ideal For Precast And Commercial Forming Applications Where Forms See Daily Use Or Aggressive Stripping Schedules And Where Quality Concrete Surface Appearance Is A Primary Objective.
- Ideal For Concrete Mixes With High Cement Or Mineral Admixture Content Such As Fly Ash Or Blast Furnace Slag Or In Production Utilizing Aggressive Force Curing.
- Minimizes The Formation Of New Concrete Buildup.
- More economical than acid cleaning, sandblasting or scraping.
- 100% Biodegradable Water-Base Formulation Is Free Of Conventional Form Oil, Diesel Oil Or Kerosene.
- Economical, Ready To Use

## SPRAY COVERAGE RATES TO OBTAIN HIGH VISUAL IMPACT CONCRETE

<u>Flat Spray Tip</u>	<u>Pressure</u>	<u>Optimum Coverage</u>	<u>Optimum Coverage</u>
80015 tip	30-40 psi	70 sq ft/10 sec	40 sq ft/10 sec
8001 tip	30-40 psi	50 sq ft/10 sec	30 sq ft/10 sec
800067 fine tip	50-60 psi	40 sq ft/10 sec	20 sq ft/10 sec
800050 fine tip	50-60 psi	30 sq ft/10 sec	15 sq ft/10 sec
Wet Film Thickness		0.0005 to 0.001 in	0.001 to 0.0025 in

# Material Safety Data Sheet

## CONCRETE FORM BIO-RELEASE

### SECTION I - IDENTIFICATION

MANUFACTURER'S NAME:.....L&L QUALITY PRODUCTS  
MANUFACTURER'S ADDRESS:3569 VICKI LANE | DOUGLASVILLE, GA 30135  
EMERGENCY PHONE NUMBER 770-231-2153  
DATE PREPARED:.....DECEMBER 11, 2009  
REVISED DATE:.....N/A  
PRODUCT NAME:.....CONCRETE FORM BIO-RELEASE  
CHEMICAL DESCRIPTION: .....PROPRIATORY BLEND  
PRODUCT USE:.....CONCRETE FORM RELEASE AGENT

### SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	TLV-ACGIH	PRODCAS #
Butoxyethanol	< 10	20ppm	111-76-2

### SECTION III - PHYSICAL DATA

BOILING POINT:.....> 212 F  
pH 1% SOLUTION:.....7.0  
SOLUBILITY IN WATER: SOLUBLE  
% MOISTURE:.....48  
BROOKFIELD VISC. @ 75F.....45 cps TYPICALLY  
SPECIFIC GRAVITY:.....0.99 g/ml  
APPEARANCE AND ODOR:.....CLEAR GREEN LIQUID WITH A GLYCOL ETHER ODOR.  
MISC. PHYSICAL DATA:.....N/A

### SECTION IV - FIRE AND EXPLOSION DATA

FLASHPOINT:.....>200 F  
FIRE POINT:..... N/A  
EXTINGUISHING MEDIA: WATER SPRAY OR MIST, CO2, DRY CHEMICAL, FOAM  
SPECIAL FIRE FIGHTING PROCEDURES: WEAR A SELF CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE DISPLACEMENT MODE. WATER SPRAY SHOULD BE USED TO KEEP DRUMS COOL IF THEY ARE INVOLVED IN A FIRE SINCE HEAT WILL CAUSE THE PRODUCT TO EXPAND AND POSSIBLY CAUSE THE DRUMS TO EXPLODE FROM INTERNAL PRESSURE.

# Material Safety Data Sheet

## CONCRETE FORM BIO-RELEASE

### SECTION V - REACTIVITY DATA

**CHEMICAL STABILITY:**.....STABLE

**CONDITIONS TO AVOID:**.....N/A

**INCOMPATIBILITY:** STRONG OXIDIZERS.

**DECOMPOSITION PRODUCTS:** CARBON DIOXIDE, CARBON MONOXIDE, SULFUR OXIDES AND VARIOUS HYDROCARBONS MAY BE RELEASED DURING A FIRE.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

### SECTION VI - HEALTH HAZARD DATA

**THRESHOLD LIMIT VALUE:** NOT ESTABLISHED

**OVER EXPOSURE EFFECTS/ROUTES OF ENTRY:**

CAN CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT WITH THE UNDILUTED PRODUCT CAN CAUSE SKIN DRYNESS OR IRRITATION. SWALLOWING THIS PRODUCT MAY CAUSE GASTROINTESTINAL IRRITATION, DIARRHEA, NAUSEA, AND VOMITING.

**FIRST AID PROCEDURES:**

FLUSH EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED SKIN AREAS WITH MILD SOAP AND WATER. IN CASE OF INTOXICATION, GIVE OXYGEN. AVOID MOUTH-TO-MOUTH RESUSCITATION.

**CHRONIC OVER EXPOSURE EFFECTS:**

N/A

**CARCINOGENITY INFORMATION:**

NO COMPONENTS OF THIS PRODUCT ARE LISTED AS A CARCINOGEN BY IARC, NTP, OSHA, OR ACGIH.

### SECTION VII - SPILL OR LEAK PROCEDURE

**FOR SPILL:**

CONTAIN SPILL AND SALVAGE AS MUCH MATERIAL AS POSSIBLE BY PUMPING TO A SALVAGE TANK OR DRUM. PICK UP REMAINING MATERIAL WITH A SUITABLE ABSORBENT.

**WASTE DISPOSAL METHOD:**

DISPOSE OF ONLY BY METHODS APPROVED BY AND USED IN ACCORD WITH LOCAL, STATE AND FEDERAL REGULATIONS.

# Material Safety Data Sheet

## CONCRETE FORM BIO-RELEASE

### SECTION VIII - SPECIAL PROTECTION

**RESPIRATORY PROTECTION:**

NOT NORMALLY REQUIRED.

**VENTILATION:**

LOCAL EXHAUST, GENERAL MECHANICAL.

**PROTECTIVE GLOVES:**

NEOPRENE OR OTHER CHEMICAL RESISTANT GLOVES.

**EYE PROTECTION:**

CHEMICAL SPLASH GOGGLES.

**OTHER PROTECTIVE EQUIPMENT:**

SAFETY SHOWER / EYE BATH. DO NOT HANDLE THIS PRODUCT IN ITS UNDILUTED FORM WITHOUT PROPER PROTECTIVE EQUIPMENT OR CLOTHING ISSUED.

### SECTION IX - SPECIAL PRECAUTIONS

**SPECIAL INFORMATION:**

STORE AT NORMAL TEMPERATURES AND CONDITIONS OF WAREHOUSING. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID ALLOWING PRODUCT TO FREEZE. WASH CONTAMINATED CLOTHING BEFORE RE-WEARING.

**DOT HAZARD CLASS:**.....N/A

**DOT SHIPPING NAME:**.....N/A

**UN NUMBER:**.....N/A

**NA NUMBER:**.....N/A

**ADDITIONAL REGULATORY INFORMATION:** ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. THIS PRODUCT CONTAINS 2-BUTOXYETHANOL (< 15%) WHICH IS REPORTABLE AS A SARA 313 CHEMICAL.

HMIS CODES	
HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERS. PROTECTION	C

ALL DATA ARE BELIEVED TO BE CORRECT, HOWEVER, THIS SHOULD NOT BE ACCEPTED AS A GUARANTEE OF THEIR ACCURACY WITHOUT CONFIRMING TESTS IN YOUR OWN PLANT OR LABORATORY. THE DATA RELATES ONLY TO THE MATERIAL AS SUPPLIED AND DOES NOT RELATE TO COMBINATIONS WITH OTHER MATERIALS. MC-197-06A  
ASPHALT GREEN RELEASE

# PRODUCT SPECIFICATIONS SHEET

DECEMBER 11, 2009

PRODUCT: **CONCRETE FORM BIO-RELEASE**

TEST	DESCRIPTION	SPECIFICATIONS
MTM13.1F	% SOLIDS 1g 105C 60'	39 TO 40
MTM16.1A	SOLUBILITY 1%, 25C	SOLUBLE
MTM5.1C	BRIX REFRACT # NEAT	10 TO 100
MTM3.7	COLOR COMPARISON TO STANDARD	COMPARE TO STANDARD
MTM6.7	APPEARANCE	CLEAR GREEN LIQUID
MTM9.1A	pH 1% SOL. @25C	6.5 TO 7.5

L & L Quality Products  
3569 Vicki Lane, Douglasville, GA 30135