

# G-BIOGREEN A.R.A.

An Asphalt Release Agent formulated specifically for H.M.A. Mix Designs containing Fibers, Chipped Rubber, Shingles and Polymer, providing clean, rapid and easy separation of bituminous (asphalt) materials from beds of dump trucks and haul trucks and 100% biodegradable.

## PRODUCT SPECIFICATIONS SHEET

SEPTEMBER 18, 2009

**PRODUCT: G- BIOGREEN A.R.A.**

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

# Material Safety Data Sheet

## G- BIOGREEN A.R.A.

### 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:.....SEPTEMBER 18, 2009  
REVISED DATE:.....N/A  
PRODUCT NAME:.....G - BIOGREEN A.R.A.  
CHEMICAL DESCRIPTION: .....PROPRIATORY BLEND  
PRODUCT USE:.....ASPHALT RELEASE AGENT

### SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	TLV-ACGIH	PRODCAS #
Methyl Soy Ester	< 10	none	67784-80-9

### 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.

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### 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.

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### 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