

**RICECO LONDAX®**

Date Prepared: November 15, 2011

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

## PRODUCT IDENTIFICATION:

Product Name: LONDAX®  
Chemical Name: Bensulfuron Methyl  
EPA Reg. No.: 71085-33

## HAZARD CLASSIFICATION (0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe)

NFPA: HEALTH - 1 FIRE - 1 REACTIVITY - 0  
HMIS: HEALTH - 1 FIRE - 1 REACTIVITY - 0

## MANUFACTURER

Company Name: RiceCo L.L.C.  
Address: 5100 Poplar Avenue, Suite 2428  
Memphis, Tennessee 38137 USA

## EMERGENCY TELEPHONE NUMBER(S):

RiceCo L.L.C. (888) 835-1313  
Global Logistics: (504) 439-3140 or (727) 374-5705

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Component Name	% by Wt.	CAS Number	TWA/STEL	ACGIH(TLV)/OSHA (PEL)
Bensulfuron Methyl	60.0	83055-99-6	Not established	Not established

**3. HAZARDS IDENTIFICATION**

## EMERGENCY OVERVIEW

Causes substantial eye irritation which will cause discomfort and is expected to be temporary. Repeated or prolonged expose may produce effects in the liver or kidney. **WARNING!**

## POTENTIAL HEALTH EFFECTS

Eyes: Moderately irritating to the eyes. Irritation to the eyes is expected to be temporary.  
Skin: Based on animal studies does not produce skin irritation or sensitization.  
Inhalation: Due to large size of particles this material is not expected to be an inhalation hazard.

**4. FIRST AID MEASURES**

Eye Contact: Hold eyelids open and flush with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.  
Skin Contact: Remove contaminated clothing including shoes. Wash with plenty of soap and water for 15 – 20 minutes until no evidence of chemical remains. Launder contaminated clothing separately. Get medical attention if irritation persists.

**RICECO LONDAX®**

**Date Prepared: November 15, 2011**

Inhalation: Move person to fresh air.  
 If person is not breathing, call 911 or an ambulance, then give Artificial respiration.  
 Call a poison control center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES**

Flash Point: Not available  
 Flammable Limits: Not available  
 Autoignition Temperature (°F): 400°C/752°F

**FIRE FIGHTING HAZARDS AND PROCEDURES**

General Hazard: Prevent human exposure to fire, smoke, fumes or products of combustion. Stay upwind and keep safe distance from the fire. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants and other variables.

Unusual Fire, Explosion And Reactivity Hazards: Combustion produces noxious fumes, hydrogen chloride, chlorine, organic acids and chloroanilines. Pesticide particulates may become airborne. Closed containers may rupture via pressure build-up when exposed to fire or extreme heat.

Extinguishing Media: Water-spray, Foam Dry chemical Carbon dioxide (CO2).  
 Fire Fighting Equipment: Wear full protective clothing and self-contained breathing apparatus (pressure demand MSHA/NIOSH approved or equivalent). Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. Runoff should be contained.

Special Procedures: Move containers promptly out of fire zone. If removal is impossible, cool containers with water spray. Do not use a solid stream of water. A solid stream of water can spread fire. Remain upwind. Avoid breathing noxious fumes from fire-exposed material. Runoff should be contained.

**6. ACCIDENTAL RELEASE MEASURES**

Spill or Leak: Eliminate all ignition sources. Ventilate the spill area. Comply with fire, explosion, safety precaution, personal protective equipment sections of this MSDS before proceeding with cleanup. Absorb material with inert material such as 'oil dry' and transfer to suitable container. Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Contact RiceCo or Global Logistics if assistance is needed. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802, refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for complete regulations concerning reporting requirements.

**7. HANDLING AND STORAGE**

**RICECO LONDAX®****Date Prepared: November 15, 2011**

Storage Conditions:	Keep containers tightly closed when not in use. Avoid temperature extremes, ambient temperature preferred. Do not store or consume food, drink or tobacco in areas where they may become contaminated by this material. Store in a well ventilated area away from excessive heat (e.g. steampipes, radiators), from sources of ignition, and from reactive materials. Store out of direct sunlight in a cool place. Store in a dry area. Store in a secure area away from children.
Handling Procedures:	Do not handle material near food, feed, tobacco or drinking water. Wash after handling and shower thoroughly at end of work period.
Other:	Improper disposal or re-use of product container may be dangerous and illegal. Refer to local, state, tribal and federal regulations regarding safe handling and disposal of chemical and chemical containers. Dispose of empty containers in a sanitary landfill or by incineration as allowed by state, local, tribal and federal authorities. Avoid inhalation of smoke, if incinerated.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### PESTICIDE APPLICATORS & WORKERS

These workers must refer to the Product Label and Directions for Use attached to the product for Agriculture Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

### MANUFACTURING, COMMERCIAL BLENDING and REPACKAGING WORKERS

Ventilation:	Provide local exhaust ventilation and/or general dilution ventilation to control mist or vapor concentration and to meet published exposure limits.
Respiratory Protection:	Up to 10 times the exposure limit: Wear a MSHA/NIOSH approved half-mask, air purifying respirator or equivalent. Up to 100 times the exposure limit: Wear a MSHA/NIOSH approved full-face piece, air purifying respirator or equivalent. Above 100 times the exposure limit: Wear a MSHA/NIOSH approved self-contained breathing apparatus in the positive pressure mode or MSHA/NIOSH approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Air purifying respirators should be equipped with pesticide cartridges (organic vapor cartridge and pesticide pre-filter).
Eye Protection:	Use chemical splash goggles (ANSI Z87.1 or approved equivalent).
Hand Protection:	Butyl rubber and nitrile gloves may provide protection against permeation. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands thoroughly with soap and water.
Other Protection:	Wear long-sleeved shirt, long pants, shoes, socks and chemical resistant apron or other impervious clothing to avoid prolonged or repeated exposure to skin.
Engineering Controls (Ventilation):	Use explosion proof local exhaust with a minimum capture velocity of 150 ft/min (0.75 m/sec) at the point of vapor or mist evolution. Refer to the current edition of <u>Industrial Ventilation: A Manual of Recommended Practice</u> published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use and maintenance of exhaust systems.

**RICECO LONDAX®**

**Date Prepared: November 15, 2011**

Other Protection Equipment: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure:	Nott available	Specific Gravity:	Not available
Vapor Density:	Not available	Evaporation Rate:	Not available
Viscosity:	Not available	Percent Volatiles:	Not available
Density:	42 lb/cu ft	VOC Content:	Not available
Solubility in Water:	Dispersable in water	Molecular Weight:	Not available
pH:	(1% solution) 6.25	Percent Solids:	Not available
Boiling Point:	Not available		
Melting Point:	Not available		
Odor:	Sweet Woody		
Color:	Light tan		
Physical State:	Solid		

**10. STABILITY AND REACTIVITY**

General:	This material is considered to be stable; however, contact with ignition sources such as sparks, open flame and heated surfaces are to be avoided. Avoid dust formation.
Hazardous Decomposition:	None under normal use.
Hazardous Polymerization:	This material will not undergo polymerization.
Incompatibility:	No materials to be especially mentioned..

**11. TOXICOLOGICAL INFORMATION**

Toxicological data available for this material:

**ACUTE**

Inhalation:	Lc50 4 hr (rat) = .7.5 mg/L for A.I.
Eye Irritation:	Moderate eye irritant
Skin Irritation:	Not a skin irritant or skin sensitizer in animals.
Oral LD <sub>50</sub>	Rat - >5000 mg/kg
Dermal LD <sub>50</sub>	Rat - >2000 mg/kg

**Chronic Toxicity**

**Carcinogenicity** Bensulfuron methyl – Repeated and long term ingestion exposure with Bensulfuron methyl caused decreased body weight, increased liver weight, pathological changes in the liver and kidneys, anemia, and altered hematology and clinical chemistry. Single inhalation exposure caused decreased body weight with nasal and ocular discharge. In animal testing Bensulfuron methyl has not caused carcinogenicity or reproductive toxicity. Animal data show developmental effects only at exposure levels producing other toxic effects in the adult animal. No-observed-adverse-effect-level (NOAEL) for the development study was 300 mg/kg in rabbits. The NOAEL for maternal and fetal toxicity was 1320 mg/kg. Tests have shown that Bensulfuron methyl did not cause genetic damage in bacterial or mammalian cell cultures, or in animals.

**12. ECOLOGICAL INFORMATION**

**RICECO LONDAX®**

**Date Prepared: November 15, 2011**

Environmental Toxicity:  
 Londax:  
 Aquatic toxicity:  
 96 hour LC50 for Bluegill sunfish = 120 mg/L  
 96 hour LC50 for Rainbow trout = 66 mg/L  
 LD50 Mallard duck = .2,150 mg/kg  
 LC50 Bobwhite quail = .5,620 ppm

**13. DISPOSAL CONSIDERATIONS**

For disposal, incinerate this material at a facility that complies with local, state, tribal and federal regulations. The above recommendation covers disposal of material only as supplied. Refer to package labeling for more information.

**14. TRANSPORT INFORMATION:**

Department of Transportation (DOT):	Not Regulated
International Air Transport Association (IATA):	Not Regulated
International Maritime Organization (IMO):	Not Regulated
UN Classification:	

The DOT classification is for use when shipping in non-bulk packaging for domestic surface transportation only. Exceptions in CFR 49 Parts 171-177 may apply. Consult CFR 49 Parts 171-177 to determine appropriate classification when shipping in bulk packages or when shipping by ocean or air.

**15. REGULATORY INFORMATION**

<b>SARA 313</b>	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
-----------------	--

<b>SARA 311/312 Hazardous Categorization</b>	
<b>Chronic Health Hazard</b>	No
<b>Acute Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**CERCLA:**

**RCRA:**

**Pesticide Information**

**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

MATERIAL SAFETY DATA SHEET

**RICECO LONDAX®**

**Date Prepared: November 15, 2011**

**State Right-to-Know  
International Regulations**

**Mexico-Grade**

Not available

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Not determined

---

**16. OTHER INFORMATION**

**REVISION SUMMARY**

This Material Safety Data Sheet (MSDS) has been revised using the standard ANSI Z400.1 compliant format and replaces the one dated \_\_\_\_\_.

***THE INFORMATION CONTAINED IN THIS MSDS RELATES TO THIS SPECIFIC PRODUCT. IT MAY NOT BE VALID FOR THIS PRODUCT IF USED IN COMBINATION WITH ANY OTHER PRODUCTS OR IN ANY PROCESS. IT IS THE USERS' RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR THEIR OWN PARTICULAR USE.***