

# MATERIAL SAFETY DATA SHEET

Revision Date: February 25, 2010

Product Name: <b>1507x59122xMON810</b> Common Synonyms: <i>Bacillus thuringiensis</i> Cry1F, Cry34/35Ab1 and Cry1Ab proteins U.S. EPA Registration Number: 29964-8 Primary Hazards: None	Contact: Pioneer Hi-Bred International, Inc. 7300 NW 62 <sup>nd</sup> Avenue Johnston, IA 50131	
		Emergency Telephone: <b>1-800-342-7123</b>

## SECTION 1 - MATERIAL IDENTIFICATION

### INGREDIENT 1

Common Name: *Bacillus thuringiensis* Cry1F protein and the genetic material necessary for its production (plasmid insert PHP8999; event TC1507) in corn

*Bacillus thuringiensis* Cry34/35Ab1 proteins and the genetic material necessary for its production (plasmid insert PHP17662; event DAS-59122-7) in corn

*Bacillus thuringiensis* Cry1Ab protein and the genetic material necessary for its production (plasmid insert pV-ZMBK07; event MON-ØØ81Ø-6) in corn

Chemical Name: N/A  
 Molecular Formula: N/A  
 CAS Number: NA  
 Percent: N/A

### INGREDIENT 2

Common Name: Inert Ingredients  
 Chemical Name: N/A  
 Molecular Formula: N/A  
 CAS Number: N/A  
 Percent: N/A

## SECTION 2 - PHYSICAL DATA

Appearance: Corn seed  
 Odor: No obvious odor  
 Boiling Point: N/A  
 Melting Point: N/A  
 Density: Unknown  
 Specific Gravity: ~1.26  
 Solubility in Water: N/A  
 pH: Unknown  
 Special Fire Fighting Procedures: None  
 Unusual Fire and Explosion Hazards: None

## SECTION 3 FIRE AND EXPLOSION

### DATA

Flash Point: N/A  
 Method: N/A  
 Extinguishing Media: Use extinguishing media appropriate for surrounding fire

Special Fire Fighting Procedures: None  
 Unusual Fire and Explosion Hazards: None

## SECTION 4 - REACTIVITY

Stability: Material is non-reactive  
 Hazardous Polymerization: Does not occur  
 Materials to Avoid: None Known  
 Hazardous Decomposition Products: None known  
 Incompatibility: None known

## SECTION 5 - HEALTH HAZARD

Primary Route of Entry: Ingestion  
 Exposure Limit: Not Established  
 Corrosivity: Not corrosive  
 Skin/Eye Irritation: N/A  
 Sensitization: N/A  
 Effects of Overexposure: N/A

Toxicity:

Ingestion LD50 (Mouse) (Cry1F) Acute Studies:	> 5050 mg/kg Acute Toxicity data generated on a comparable <i>Bacillus thuringiensis</i> microbial toxin has produced results that demonstrate no toxicity to non-target insects, fish, and avian species.
Ingestion LD50 (Mouse) (Cry34/35Ab1) Acute Studies:	> 2,000 mg/kg Acute Toxicity data generated on a comparable <i>Bacillus thuringiensis</i> microbial toxin has produced results that demonstrate no toxicity to non-target insects, fish, and avian species.
Ingestion LD50 (Mouse) (Cry1Ab) Acute Studies:	> 4,000 mg/kg Acute Toxicity data generated on a comparable <i>Bacillus thuringiensis</i> microbial toxin has produced results that demonstrate no toxicity to non-target insects, fish, and avian species.

SECTION 6 - FIRST AID

No need for first aid is anticipated.

SECTION 7 - SPILL, LEAK AND DISPOSAL PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:

If material is spilled, sweep up and dispose in accordance with all applicable federal, state, and local environmental regulations. Non-hazardous material.

SECTION 8 - SPECIAL HANDLING

Clothing:	None required
Respiratory Protection:	None required
Protective Gloves:	None required; however if gloves are desired, use ones made of an impervious material.
Eye Protection:	None required

SECTION 9 - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing:

- No special precautions.
- Keep in original packaging, tightly closed in a safe place.
- Retain original product labeling.
- Store with low humidity at or below 50% of 50 degrees F to maintain seed viability for 4-6 years.
- Combustible material; keep away from heat and flames.

SECTION 10 - SHIPPING REGULATIONS

DOT Shipping Name:	Not regulated
DOT Hazard Class/ I.D. No.:	None
DOT Label(s):	None
Freight Classification:	None
SARA Title III Hazard Classification:	
Immediate (acute) Health:	No
Delayed (chronic) Health:	No
Fire:	No
Sudden Release of Pressure:	No
Reactive:	No
National Fire Protection Association Rating:	
Health:	0
Flammability:	1
Reactivity:	0

This information is provided in good faith but without express or implied warranty.

N/A = Not Applicable