

$Safety\ Data\ Sheet-Optimum^{\it @}\ Acre Max^{\it @}\ TRIsect^{\it @}$

Compilation Date: June 1, 2015

*N/AP represents information that is not applicable for this particular product. N/AV represents information that is not available for this particular product.

Section 1: Identification

1.1 Product identifier	Optimum [®] AcreMax [®] TRIsect [®]
1.2 Relevant identified uses of the substance or	
mixture and uses advised against	
Recommended use	N/AP
Restrictions on use	N/AP
1.3 Details of the supplier of the safety data sheet	
	7250 NW 62 nd Avenue
	Johnston, IA 50131
1.4 Emergency telephone number	1-800-342-7123

Section 2: Hazard(s) Identification

2.1 Classification of the substance or mixture	Not applicable
2.2 Label Elements	
Pictogram	Not applicable
Signal word	Not applicable
Hazard statement(s)	This product is a non-hazardous material.
Precautionary statement(s)	No special precautions.
2.3 Other hazards	N/AP

Section 3: Composition/Information on Ingredients

3.1 Substances		Bacillus thuringiensis Cry1F, Cry1Ab and mCry3ACorn Seed
3.2 Mixtures		
Ingredient #1:	Chemical name	N/AP
	Common name and synonyms	Bacillus thuringiensis Cry1F protein and the genetic material
		(PHI8999A) necessary for its production in corn event DAS-
		ØØ15Ø7-1
CAS num	ber (and other unique identifiers)	6481
In	npurities and stabilizing additives	N/AP
	Concentration	N/AP
Ingredient #2:	Chemical name	N/AP
	Common name and synonyms	Bacillus thuringiensis Cry1Ab protein and the genetic material
		(vector PV-ZMBK07) necessary for its production in corn event
		MON-ØØ81Ø-6
	ber (and other unique identifiers)	6526
In	npurities and stabilizing additives	N/AP
	Concentration	N/AP
İ		

Ingredient #3:	Chemical name	N/AP
	Common name and synonyms	Bacillus thuringiensis mCry3A protein and the genetic material
		(via elements of pZM26) necessary for its production in corn
		event SYN-IR6Ø4-5
CAS numb	per (and other unique identifiers)	6509
Imp	purities and stabilizing additives	N/AP
	Concentration	N/AP

Section 4: First Aid Measures

4.1 Description of first aid measures	No need for first aid is anticipated
4.2 Most important symptoms and effects, both	N/AP
acute and delayed	
4.3 Indication of any immediate medical	N/AP
attention and special treatment needed	

Section 5: Firefighting Measures

5.1 Extinguishing media	Use extinguishing media appropriate for surrounding fire.
5.2 Special hazards arising from the substance	None
or mixture	
5.3 Advice for firefighters	None

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment	None required.
and emergency procedures	
6.2 Environmental precautions	None required.
6.3 Methods and material for containment and	Non-hazardous material. If material is spilled, sweep up and
cleaning up	dispose in accordance with all applicable federal, state and
	local environmental regulations.
6.4 Reference to other sections	N/AP

Section 7: Handling and Storage

7.1 Precautions for safe handling	Keep in original packaging, tightly closed in a safe place. Retain original product labeling.
7.2 Conditions for safe storage, including any	Store with low humidity at or below 50% and 50 degrees F to
incompatibilities	maintain seed viability for 4-6 years. Combustible material; keep away from heat and flames.
7.3 Specific end use(s)	Use in accordance with product labeling.

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters	
OSHA PELs	N/AP
ACGIH TLVs	N/AP
8.2 Exposure controls	
Engineering controls	N/AP
PPE	None required.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical	
properties	
Appearance	Corn seed
Upper/lower flammability or explosive limits	N/AP
Odor	No obvious odor.
Vapor pressure	N/AP
Odor threshold	N/AP
Vapor density	N/AP
pH	N/AP
Relative density	N/AP
Specific gravity	~1.26
Melting point/freezing point	N/AP
Solubility(ies)	N/AP
Initial boiling point and boiling range	N/AP
Flash point	N/AP
Evaporation rate	N/AP
Flammability (solid, gas)	N/AP
Partition coefficient: n-octanol/water	N/AP
Auto-ignition temperature	N/AP
Decomposition temperature	N/AP
Viscosity	N/AP
Explosive properties	N/AP
Oxidizing properties	N/AP
9.2 Other information	N/AP

Section 10: Stability and Reactivity

10.1 Reactivity	Material is non-reactive.
10.2 Chemical stability	N/AP
10.3 Possibility of hazardous reactions	N/AP
10.4 Conditions to avoid	N/AP
10.5 Incompatible materials	N/AP
10.6 Hazardous decomposition products	None known.

Section 11: Toxicological Information

11.1 Information on toxicological effects	None observed.

Section 12: Ecological Information

12.1 Toxicity	Cry1F: Ingestion LD50 (Mouse) >5050 mg/kg
	<u>Cry1Ab</u> : Ingestion LD50 (Mouse) >4000 mg/kg
	mCry3A: Ingestion LD50 (Mouse) >2377 mg/kg
	Acute toxicity data generated on comparable <i>Bacillus</i>
	thuringiensis microbial toxins have produced results that
	demonstrate no toxicity to non-target insects, fish, and avian
	species.
12.2 Persistence and degradability	N/AP
12.3 Bioaccumulative potential	N/AP
12.4 Mobility in soil	N/AP
12.5 Results of PBT and vPvB assessment	N/AP
12.6 Other adverse effects	N/AP

Section 13: Disposal Considerations

13.1 Waste treatment methods	Dispose of material within all applicable federal, state, and
	local environmental regulations.

Section 14: Transport Information

14.1 UN number	N/AP
14.2 UN proper shipping name	N/AP
14.3 Transport hazard class(es)	N/AP
14.4 Packing group	N/AP
14.5 Environmental hazards	N/AP
14.6 Special precautions for user	N/AP
14.7 Transport in bulk according to Annex II of	N/AP
MARPOL73/78 and the IBC Code	

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	EPA Registration Number: 29964-23
15.2 Chemical safety assessment	Cry1F,Cry1Ab and mCry3A proteins have been granted
	exemption from the requirement of a tolerance by EPA: 40
	CFR Sect 174.504, 174.511 and 174.505 respectively.

Section 16: Other Information