

## **B** PIONEER.

# Safety Data Sheet – Optimum<sup>®</sup> Intrasect<sup>®</sup> Insect Protection 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 <sup>®</sup> Intrasect <sup>®</sup> Insect Protection
1.2 Relevant identified uses of the substance or	
mixture and uses advised against	
Recommended use	N/AP
Restrictions on use	N/AP
<b>1.3 Details of the supplier of the safety data sheet</b>	
	7250 NW 62 <sup>nd</sup> 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
<i>Hazard statement(s)</i>	This product is a non-hazardous material.
<i>Precautionary statement(s)</i>	No special precautions.
2.3 Other hazards	N/AP

#### Section 3: Composition/Information on Ingredients

3.1 Substances		Bacillus thuringiensis Cry1F and Cry1Ab Corn Seed
3.2 Mixtures		
Ingredient #1:	Chemical name	N/AP
	Common name and synonyms	<i>Bacillus thuringiensis</i> Cry1F protein and the genetic material necessary for its production (plasmid insert PHI8999A; event
		DAS-Ø15Ø7-1) in corn
CAS num	uber (and other unique identifiers)	6481
	npurities and stabilizing additives	N/AP
	Concentration	N/AP
Ingredient #2:	Chemical name	N/AP
	Common name and synonyms	<i>Bacillus thuringiensis</i> Cry1Ab protein and the genetic material necessary for its production (plasmid insert pV-ZMBK07; event MON-ØØ81Ø-6) in corn
CAS num	<i>uber (and other unique identifiers)</i>	6526
	npurities 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.

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	
Vapor density	N/AP
рН	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 N/AP
10.3 Possibility of hazardous reactions10.4 Conditions to avoid	N/AP N/AP
10.5 Incompatible materials10.6 Hazardous decomposition products	N/AP None known.

## Section 11: Toxicological Information

11.1 Information on toxicological effects	None observed.

#### Section 12: Ecological Information

12.1 Toxicity	<u><b>Cry1F</b></u> : Ingestion LD50 (Mouse) >5050 mg/kg <u><b>Cry1Ab</b></u> : Ingestion LD50 (Mouse) >4000 mg/kg Acute toxicity data generated on comparable <i>Bacillus</i> <i>thuringiensis</i> 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: 29964-7
15.2 Chemical safety assessment	Cry1F and Cry1Ab proteins have been granted exemption from the requirement of a tolerance by EPA: 40 CFR Sect 174.504 and 174.511 respectively.

#### Section 16: Other Information

N/AP