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Safety Data Sheet – Herculex[®] Rootworm 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	Herculex [®] Rootworm 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
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.
<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 Cry34/35Ab1 Corn Seed
3.2 Mixtures		
Ingredient #1:	Chemical name	N/AP
-	Common name and synonyms	Bacillus thuringiensis Cry34Ab1 and Cry35Ab1 proteins and
		the genetic material necessary for its production in corn.
CAS numb	ber (and other unique identifiers)	6490
Im	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

9.2 Other information	N/AP
Oxidizing properties	N/AP
Explosive properties	N/AP
Viscosity	N/AP
Decomposition temperature	N/AP
Auto-ignition temperature	N/AP
Partition coefficient: n-octanol/water	N/AP
Flammability (solid, gas)	N/AP
Evaporation rate	N/AP
Flash point	N/AP
Initial boiling point and boiling range	N/AP
Solubility(ies)	N/AP
Melting point/freezing point	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	Ingestion LD50 (Mouse) >2000 mg/kg Acute toxicity data generated on a comparable <i>Bacillus</i> <i>thuringiensis</i> microbial toxin has 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: 29964-4
15.2 Chemical safety assessment	Cry34Ab1 and Cry35Ab1 proteins have been granted exemption from the requirement of a tolerance by EPA: 40 CFR Sect 174.506

Section 16: Other Information

N/AP