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Safety Data Sheet - PIONEER® brand 11B91

Compilation Date: June 25, 2014

*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	PIONEER® brand 11B91 Inoculant
	As packaged in 10g, 50g, 250g, or 500g bottles.
1.2 Relevant identified uses of the substance or	
mixture and uses advised against	
Recommended use	Soluble Powder Forage Additive for Silage
Restrictions on use	N/AV
1.3 Details of the supplier of the safety data	DuPont Pioneer
sheet	7100 N.W. 62 nd Ave.
	P.O. Box 1014
	Johnston, IA 50131-1014
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)	Product is not considered a hazardous substance according to
	OSHA 29 CFR 1910.1200.
Precautionary statement(s)	N/AP
2.3 Other hazards	Prevention:
	Obtain special instructions before use.
	Do not handle until all safety precautions have been
	read and understood.
	Keep container tightly closed.
	Wearing gloves, long sleeves, appropriate eye
	protection (goggles, foam seal safety glasses, etc.) and
	appropriate dust mask respirator are recommended to
	avoid dust irritation.
	Do not breathe dust.
	Use only outdoors or in a well-ventilated area.

Section 3: Composition/Information on Ingredients

3.1 Substances	N/AP
3.2 Mixtures	
Ingredient #1: Lactobacillus buchneri CAS number (and other unique identifiers) Impurities and stabilizing additives	N/AP

Ingredient #2: Lactobacillus plantarum *CAS number (and other unique identifiers)* N/AP Impurities and stabilizing additives N/AP Not less than 1.1 x 10¹¹ colony forming units (CFU) per gram. Concentration Ingredient #3: Maltodextrin Common name and synonyms N/AP CAS number (and other unique identifiers) 9050-36-6 Impurities and stabilizing additives N/AP Concentration Weight varies by batch. Sodium Aluminosilicate Ingredient #4: Common name and synonyms Stabilizer CAS number (and other unique identifiers) 1344-00-9 Impurities and stabilizing additives N/AP Concentration 9.90%

Section 4: First Aid Measures

4.1 Description of first aid measures	Inhalation:
	If inhaled, remove to fresh air. If not breathing, give
	artificial respiration. If breathing is difficult, give
	oxygen. Seek medical advice if symptoms persist or
	develop.
	Skin contact:
	In case of contact, immediately flush skin with plenty
	of water and soap if available. Seek medical advice if
	symptoms persist or develop.
	Eye contact:
	Remove contact lenses. Rinse immediately with plenty
	of water, also under the eyelids, for at least 15
	minutes. Seek medical advice if symptoms persist or
	develop.
	Ingestion:
	Do NOT induce vomiting unless directed to do so by
	medical personnel. Rinse mouth and throat thoroughly
	with water. Never give anything by mouth to an
	unconscious person. Seek medical advice if symptoms
	persist or develop.
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	Non-hazardous, use extinguishing agents suitable to 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
and emergency procedures	
6.2 Environmental precautions	None
6.3 Methods and material for containment and	Non-hazardous. Dispose of contents/containers to approved
cleaning up	disposal site in accordance with local, regional, national,
	and/or international regulations.
6.4 Reference to other sections	If appropriate, refer to sections 8 and 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling	None
7.2 Conditions for safe storage, including any	Keep in original packaging, tightly closed in a safe place.
incompatibilities	Retain original product labeling.
	Store at 72 degrees F or below.
7.3 Specific end use(s)	Soluble Powder Forage Additive for Silage.

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters	
OSHA PELs	N/AP
ACGIH TLVs	N/AP
8.2 Exposure controls	
Engineering controls	Adequate ventilation.
PPE	*
	to avoid dust irritation.
	to avoid dust initiation.
	Hand protection: Gloves are recommended to prevent skin
	contact.
	Contact.
	Skin and body protection: Long sleeves are recommended
	to prevent skin contact.
	to prevent skin contact.
	Respiratory protection: Appropriate dust mask is
	recommended to prevent dust inhalation. Avoid breathing
	dust.
	dust.
	Work / Hydiana muaticasa Haa anad naganal barriaga
	Work / Hygiene practices: Use good personal hygiene
	practices. Avoid repeated and/or prolonged skin exposure.
	Wash hands before eating, drinking, smoking, or using toilet
	facilities.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical	
properties	

Appearance	Free flowing powder; pale yellow in color
Upper/lower flammability or explosive limits	N/AP
Odor	No odor
Vapor pressure	N/AP
Odor threshold	N/AP
Vapor density	N/AP
pН	4.5-8.9 (in 10% solution)
Relative density	N/AP
Specific gravity	N/AP
Melting point/freezing point	N/AP
Solubility(ies)	Soluble
Initial boiling point and boiling range	N/AP
Flash point	
Evaporation rate	
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	N/AP
10.2 Chemical stability	Stable under normal conditions
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	N/AP

Section 11: Toxicological Information

11.1 Information on toxicological effects	According to Directive 2000/54/EC, product is classified in
	group 1 (unlikely to cause human disease).
	Effects of short-term exposure: Repeated inhalation of
	powder may cause sensitization and may cause allergic type
	reactions in sensitized individuals.
	Effects of long-term exposure: Repeated inhalation of
	powder may cause sensitization and may cause allergic type
	reactions in sensitized individuals.
	Irritancy: N/AV
	Sensitization: Possible allergic sensitization (see Section 2)
	Allergy: N/AV
	Carcinogenicity: N/AV
	Reproductive toxicity: N/AV
	Teratogenicity: N/AV
	Mutagenicity: N/AV

Toxicology synergistic products: N/AV

Section 12: Ecological Information

12.1 Toxicity	N/AV
12.2 Persistence and degradability	N/AV
12.3 Bioaccumulative potential	N/AV
12.4 Mobility in soil	N/AV
12.5 Results of PBT and vPvB assessment	N/AV
12.6 Other adverse effects	Adopt good working practices so that the product is not
	released into the environment. No ecological information is
	available. The substance is unlikely to have a significant
	effect on the environment.

Section 13: Disposal Considerations

13.1 Waste treatment methods	Non-hazardous. Dispose of contents/containers to approved
	disposal site in accordance with local, regional, national,
	and/or international regulations.

Section 14: Transport Information

14.1 UN number	N/AV
14.2 UN proper shipping name	N/AV
14.3 Transport hazard class(es)	Not classified as dangerous in the meaning of transport
_	regulations.
14.4 Packing group	N/AV
14.5 Environmental hazards	N/AV
14.6 Special precautions for user	N/AV
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	N/AP
regulations/legislation specific for the substance	
or mixture	
15.2 Chemical safety assessment	N/AP

Section 16: Other Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use processing, storage, transportation, disposal, and release is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Revision Date: June 15, 2018.

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