# **MONSANTO Company**

Safety Data Sheet Commercial Product

# 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1. Product identifier

### Acceleron® B-300 SAT

1.1.1. Chemical name

Not applicable.

1.1.2. Synonyms

None.

#### 1.2. Product use

Penicillium bilaiae-containing inoculant for crops, applied as seed treatment

#### 1.3. Company

MONSANTO Company, 800 N. Lindbergh Blvd., St. Louis, MO, 63167 **Telephone:** 314-694-1000 **E-mail:** safety.datasheet@monsanto.com

#### 1.4. Emergency numbers

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC - Day or Night: 1-800-424-9300 toll free in the continental U.S., Puerto Rico, Canada, or Virgin Islands. For calls originating elsewhere: 703-527-3887 (collect calls accepted). FOR MEDICAL EMERGENCY - Day or Night: +1 (314) 694-4000 (collect calls accepted).

# 2. HAZARDS IDENTIFICATION

#### 2.1. Classification

Classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200 (2012) Eye damage/irritation - Category 2

#### 2.2. Label elements

2.2.1. Signal word

- Warning
- 2.2.2. Hazard pictogram/pictograms



**2.2.3. Hazard statement/statements** Causes serious eye irritation.

#### 2.2.4. Precautionary statement/statements

Wear eye/face protection.

Wash thoroughly after handling.

IF IN EYES:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

0% of the mixture consists of ingredient/ingredients of unknown acute toxicity.

#### 2.4. Appearance and odour (colour/form/odour)

Grey-Black /Liquid / Odourless

Refer to section 11 for toxicological and section 12 for environmental information.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Active ingredient

None; {Not applicable}

Composition

COMPONENT	CAS No.	% by weight (approximate)
Penicillium bilaiae		10
Alcohols, C11-15-secondary, ethoxylated	68131-40-8	<=2
Water and minor formulating ingredients		>=88

The specific chemical identity and/or concentration range is being withheld because it is trade secret information of Monsanto Company.

### 4. FIRST AID MEASURES

Use personal protection recommended in section 8.

#### 4.1. Description of first aid measures

- **4.1.1. Eye contact:** If in eyes, hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
- **4.1.2. Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Sensitized persons should avoid further contact and reuse of contaminated clothing.
- **4.1.3. Inhalation:** If inhaled, move person to fresh air. If person is not breathing, call emergency number or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- **4.1.4. Ingestion:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison center or doctor. Do not give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects, both acute and delayed

- **4.2.1. Eye contact, short term:** Causes serious eye irritation.
- **4.2.2. Skin contact, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed. May cause allergic skin reaction.
- **4.2.3. Inhalation, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed.
- **4.2.4. Single ingestion:** Not expected to produce significant adverse effects when recommended use instructions are followed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**4.3.1. Medical conditions aggravated by exposure:** Contains microorganisms which may have the potential to provoke sensitising reactions. Opportunistic infections may occur in patients with compromised immune functions.

4.3.2. Advice to doctors: None

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

5.1.1. Recommended: Water, Foam, Dry chemical, Carbon dioxide (CO2)

#### 5.2. Special hazards

#### 5.2.1. Unusual fire and explosion hazards

Minimise use of water to prevent environmental contamination. Environmental precautions: see section 6.

- **5.2.2. Hazardous products of combustion** Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulphur oxides (SOx), Hydrogen chloride (HCl)
- **5.3. Fire fighting equipment:** Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

#### 5.4. Flash point

Does not flash.

# 6. ACCIDENTAL RELEASE MEASURES

#### **6.1. Environmental precautions**

Minimise spread. Contain spillage with sand bags or other means. Keep out of drains, sewers, ditches and water ways. Do NOT contaminate water when disposing of rinse waters.

#### 6.2. Methods for cleaning up

SMALL QUANTITIES: Flush spill area with water. LARGE QUANTITIES: Absorb in earth, sand or absorbent material. Dig up heavily contaminated soil. Collect in containers for disposal. Flush residues with small quantities of water. Minimise use of water to prevent environmental contamination.

Refer to section 13 for disposal of spilled material. Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

# 7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.

#### 7.1. Precautions for safe handling

Do NOT taste or swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. When using do not eat, drink or smoke. Wash hands thoroughly after handling or contact. Wash contaminated clothing before re-use. Thoroughly clean equipment after use. Do not contaminate drains, sewers and water ways when disposing of equipment rinse water. Refer to section 13 of the safety data sheet for disposal of rinse water.

#### 7.2. Conditions for safe storage

Minimum storage temperature: 40 °F

Maximum storage temperature: 68 °F

**Incompatible materials for storage**: Acids, bases, oxidizers, reducers, disinfectants, fungicides, and/or biocides may inactivate this product.

Read label for specific storage conditions. Keep in a cool place. Store in a dry place. Limit exposure to temperatures above 20 °C and avoid fluctuations of temperature.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Airborne exposure limits

Components	Exposure Guidelines
Penicillium bilaiae	No specific occupational exposure limit has been established.
Alcohols, C11-15-secondary, ethoxylated	No specific occupational exposure limit has been established.
Water and minor formulating ingredients	No specific occupational exposure limit has been established.

#### **8.2. Engineering controls:**

No special requirement when used as recommended. If airborne exposure is excessive: Provide local exhaust ventilation.

#### 8.3. Recommendations for personal protective equipment

#### 8.3.1. Eye protection:

If there is potential for contact: Wear chemical goggles.

### 8.3.2. Skin protection:

Wear chemical resistant gloves. Chemical resistant gloves include those made of waterproof materials such as nitrile, butyl, neoprene, polyvinyl chloride (PVC), natural rubber and/or barrier laminate. If there is significant potential for contact: Wear face shield. Wear chemical resistant clothing/footwear.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Colour/colour range:	Grey - Black
Odour:	Odourless
Form:	Liquid
Physical form changes (melting, bo	ling, etc.):
Melting point:	Not applicable.
Flash point:	Does not flash.
Explosive properties:	No explosive properties
Auto ignition temperature:	No data.
Self-accelerating decomposition temperature (SADT):	No data.
Oxidizing properties:	No data.
Specific gravity:	No data.
Vapour pressure:	No significant volatility; aqueous solution.
Vapour density:	No data.

Evaporation rate:	No data.
Dynamic viscosity:	No data.
Kinematic viscosity:	No data.
Density:	1.15 g/cm3
Solubility:	Water: Completely miscible.
pH:	No data.
Partition coefficient:	No data.

# **10. STABILITY AND REACTIVITY**

#### 10.1. Stability

Stable under normal conditions of handling and storage.

#### Hazardous polymerization: Does not occur.

#### **10.2. Incompatible materials**

Acids, bases, oxidizers, reducers, disinfectants, fungicides, and/or biocides may inactivate this product. Compatible materials for storage: see section 7.2.

#### 10.3. Hazardous decomposition

Thermal decomposition: Hazardous products of combustion: see section 5.

# **11. TOXICOLOGICAL INFORMATION**

This section is intended for use by toxicologists and other health professionals.

Likely routes of exposure: Skin contact, eye contact, inhalation

#### Most important symptoms and effects, both acute and delayed

Eye contact, short term: Causes serious eye irritation.

- **Skin contact, short term:** Not expected to produce significant adverse effects when recommended use instructions are followed. May cause allergic skin reaction.
- Inhalation, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.
- **Single ingestion:** Not expected to produce significant adverse effects when recommended use instructions are followed.

#### Indication of any immediate medical attention and special treatment needed

**Medical conditions aggravated by exposure:** Contains microorganisms which may have the potential to provoke sensitising reactions. Opportunistic infections may occur in patients with compromised immune functions.

#### Advice to doctors: None

Monsanto has not conducted toxicity studies on this product. Data obtained on components are summarized below.

Alcohols, C11-15-secondary, ethoxylated

Eye irritation Rabbit, : Severe irritation. This section is intended for use by ecotoxicologists and other environmental specialists.

Monsanto has not conducted environmental studies on this product. Data obtained on components are summarized below.

#### Alcohols, C11-15-secondary, ethoxylated

Classification based on information provided in supplier safety data sheet(s).

Aquatic toxicity, fish Fathead minnow (Pimephales promelas): Acute toxicity, 96 hours, static, LC50: 3.2 - 3.6 mg/L Aquatic toxicity, invertebrates Water flea (Daphnia magna): Acute toxicity, 48 hours, static, EC50: 7.3 mg/L Biodegradation Manometric respirometry test: Degradation: > 60 % within 28 days

# **13. DISPOSAL CONSIDERATIONS**

#### **13.1.** Waste treatment methods

#### 13.1.1. Product

Keep out of drains, sewers, ditches and water ways. Recycle if appropriate facilities/equipment available. Burn in proper incinerator. Follow all local/regional/national/international regulations.

#### 13.1.2. Container

See the individual container label for disposal information. Emptied containers retain vapour and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Empty packaging completely. Triple or pressure rinse empty containers. Do NOT contaminate water when disposing of rinse waters. Ensure packaging cannot be reused. Do NOT reuse containers. Store for collection by approved waste disposal service. Recycle if appropriate facilities/equipment available. Follow all local/regional/national/international regulations.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

### **14. TRANSPORT INFORMATION**

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

#### 14.1. US Dept. of Transportation (DOT) Hazardous Materials Regulations (49 CFR Parts 105-180)

Proper Shipping Name	Not regulated for domestic transportation. ()	
(Technical Name if		
required):		

#### 14.1.1. Special provisions

Not applicable.

### 14.2. IMDG Code

Proper Shipping Name	Not regulated for transport under IMO Regulations. ()
(Technical Name if	
required):	

#### 14.3. IATA/ICAO

Proper Shipping Name	Not regulated for transport under IATA/ICAO Regulations. ()
	$\partial$

#### Version: 1.1

(Technical Name if required):

# **15. REGULATORY INFORMATION**

#### **15.1. Environmental Protection Agency**

### 15.1.1. TSCA Inventory

All components are listed on or exempt from the TSCA Inventory.

#### 15.1.2. SARA Title III Rules

Section 311/312 Hazard Categories:

See OSHA Hazard Communication Standard Categories in Section 2.1 Section 302 Extremely Hazardous Substances: Not applicable. Section 313 Toxic Chemical(s): Not applicable.

#### 15.1.3. CERCLA Reportable quantity

Not applicable.

# **16. OTHER INFORMATION**

The information given here is not necessarily exhaustive but is representative of relevant, reliable data.

Follow all local/regional/national/international regulations.

Please consult supplier if further information is needed.

In this document the British spelling was applied.

|| Significant changes versus previous edition.

Full denomination of most frequently used acronyms. BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), LOEC (Lowest Observed Effect Level), MCE (Lowest Observed Effect Level), MCE (Lowest Observed Adverse Effect Level), NOAEC (No Observed Adverse Effect Concentration), NOAEC (No Observed Effect Concentration), NOAEL (No Observed Effect Level), NOEC (No Observed Effect Level), OEL (Coccupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), STOT SE (Specific Target Organ Toxicity, Repeated Exposure), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)

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