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SAFETY DATA SHEET

Annelida Soil Solutions Ltd., Nisku, AB

Section 1 - IDENTIFICATION

Product Identification:

AnneMaxx Biome

Description:

AnneMaxx Biome (AMGR) is a soil supplement. AMGR is a diverse blend of concentrated microbes; comprised of bacteria and fungi, along with organic matter, in prill form.

Formula / Ingredients:

Worm Castings

ACTIV80-AG

Biochar

Sodium Carbonate Lignin

Powdered Gypsum

Product Use:

Soil supplement that can be broadcast, applied in furrow, or in any fertilizer blend for agricultural and horticultural applications. Benefits may include improved soil structure, improved water retention, disease and pest inhibition. This product can be complementary to any garden or agricultural fertilizer program.

Company Identification:

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Section 2 - HAZARDS IDENTIFICATION

A. Contains Gypsum (Calcium Sulphate)

Recommended Restrictions – Workers and customers or users should be informed of the presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in proper use and handling of this material should be provided as required under applicable regulations.

Physical Hazards	Not classified
Health Hazards	Carcinogenicity Category 1A Specific target organ toxicity following repeated exposure Category 1A

Hazard Statement May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned, seek medical attention/advice.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other Hazards	None known.

Supplemental Information None.

B. Contains Biochar (ZMM T-Carbon)

When looking at classifications of hazards this chemical meets you will see category numbers to tell how severe the hazard is. The numbering starts at 1 (most hazardous) and ends at 5 (least hazardous). The lower the number or letter, the more severe the hazard.

CLASSIFICATIONS

Flammable Wood – Category 5
Aspiration Hazard – Category 4
Carcinogenicity – Category 5
Specific Target Organ Toxicity (Repeated Exposure) – Category 5
Specific Target Organ Toxicity (Single Exposure) – Category 5
Skin Irritation – Category 5
Eye Irritation – Category 5
Chronic Aquatic Toxicity – Category 5

C. Contains Sodium Carbonate Lignin (Polybond)

Main Hazard	None
Flammability	Non-Flammable
Chemical Hazard	None

D. Contains Activ80-AG

This product is a naturally occurring complex mixture that can contain crystalline silica.

Section 3 – COMPOSITION

A. Contains Gypsum (Calcium Sulphate)

Mixtures	
Chemical Name	Silica, Crystalline quartz
CAS No.	14808-60-7

B. Contains Biochar (ZMM T-Carbon)

Main Ingredient	Pyrolysis of Pine/Spruce Wood Chips
Ingredient	Wood Chip Based ZMM T-Carbon >94%, Water <6%

C. Contains Sodium Carbonate Lignin (Polybond)

Product Description	Sodium Lignin
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D. Contains Activ80-AG

Physical State	Solid
Odor	Odorless
Appearance	Blackish/brown

F. Contains Worm Castings

Physical State	Solid
Odor	Slightly earthy and rich
Appearance	Blackish/brown

Section 4 – FIRST AID MEASURES – applicable to AnneMaxx Biome - (AMGR)

Inhalation	Move to fresh air. May produce allergenic response in sensitive individuals. Seek medical attention if symptoms develop or persist.
Skin Contact	Wash with soap and water. Seek medical attention if irritation develops or persists.
Eye Contact	Do not rub eyes. Rinse with water. Remove contact lenses. Seek medical attention if symptoms develop or persist.
Ingestion	Rinse mouth. Immediately dilute by drinking large quantities of water. Seek medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Dust may irritate the respiratory tract, skin, and eyes. Coughing. Keep victim under observation. Symptoms may be delayed. Prolonged and/or repeated exposure via inhalation may result in progressive and permanent lung disorders and damage. Dust has been related to silicosis.

Section 5 – FIRE FIGHTING MEASURES – applicable to AnneMaxx Biome - (AMGR)

Flammability	Not considered a fire hazard.
Flash Point	Not applicable.
Means of Extinction	Use media appropriate for surrounding fire.
Special Procedures	Use protective clothing and breathing equipment appropriate for surrounding fire.

Section 6 – ACCIDENTAL RELEASE MEASURES – applicable to AnneMaxx Biome - (AMGR) Steps to be taken

in the event material is released or spilled	Sweep up or vacuum up spills for recovery or disposal. A dust respirator may be required during cleanup.
Waste Disposal	Dispose in accordance with federal, provincial, state ad/or local regulations.
Environmental Precaution	Do not discharge product into streams, ponds, estuaries, oceans, or other waters.

Section 7 – STORAGE AND HANDLING – applicable to AnneMaxx Biome - (AMGR)

Personal Protective Equipment	Rubber gloves recommended. Goggles or safety glasses recommended. Air purifying respirator recommended for prolonged exposures to product and when working in dusty environments.
Other Protective Equipment	As appropriate to prevent bodily contact.
Storage	Store in cool, dry locations away from direct sunlight.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

As AnneMaxx AG AMGR is a blend of several components, the following controls are recommended for personal protection.

Occupational Exposure Limits	Components may be regulated by specific Canadian provincial legislation. Refer to exposure limits legislated for the province in which substance will be used.
US ACGIH Threshold Limit Values	
Components	Silica, Crystalline Quartz (CAS 14808-60-7)
Type	TWA
Value	0.025 mg/m ³
FORM	Respirable fraction
Biological Exposure Limits	None noted
Exposure Guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES – applicable to AnneMaxx Biome - (AMGR)

Physical State	Solid
Appearance and Odor	Black granules of varying size, 0-3mm, minimal odor
Bulk Density	0.76 kg/Litre
Boiling Point	Not applicable
Melting Point	Not applicable
Vapour Pressure (mm of mercury)	Does not form a vapour
Percent Volatile	N/A
pH	Unknown
Water Solubility	Slightly soluble in water

Section 10 – REACTIVITY – applicable to AnneMaxx Biome - (AMGR)

Stability	Product is stable and non-reactive under normal conditions of use, storage, and transport.
Possibility of Dangerous Reactions	No dangerous reactions known under conditions of normal use.

Section 11 – TOXICOLOGICAL INFORMATION – applicable to AnneMaxx Biome - (AMGR)

Inhalation	Airborne respirable dust may cause irritation to the nose, throat, and lungs. Causes damage to organs, including silicosis through prolonged or repeated exposure.	
Skin Contact	Dust or powder may irritate skin.	
Eye Contact	Dust may irritate eyes and impair vision.	
Ingestion	Expected to be a low ingestion hazard.	
Carcinogenicity	May cause cancer through prolonged or repeated inhalation of respirable dust particles. In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk ..." Occupational exposure to respirable dust and crystalline silica should be monitored and controlled.	
ACGIH Carcinogens	Silica, Crystalline Quartz (CAS 14808-60-7)	A2 Suspected human carcinogen
IARC Monographs. Overall Evaluation of Carcinogenicity	Silica, Crystalline Quartz (CAS 14808-60-7)	1 Carcinogenic to humans
Germ Cell Mutagenicity	No data available.	
Reproductive Toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity – single exposure	Not classified.	
Specific target organ toxicity – repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
Aspiration Hazard	Not an aspiration hazard.	
Chronic Effects	Prolonged inhalation may cause chronic effects. Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure.	

Section 12 – ECOLOGICAL INFORMATION – applicable to AnneMaxx Biome - (AMGR)

Ecotoxicity	This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect of the environment. Namely, into waterways: streams, ponds, estuaries, oceans, or other waters.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, endocrine disruption, global warming potential) are expected from this product.

Section 13 – DISPOSAL CONSIDERATIONS – applicable to AnneMaxx Biome - (AMGR)

Disposal Instructions Collect and reuse. Or collect and dispose in accordance with local/regional/national/international regulations.
Hazardous Waste This product is not deemed to be hazardous waste.

Section 14 – TRANSPORT INFORMATION – applicable to AnneMaxx Biome - (AMGR)

TDG This product is not regulated as dangerous goods.
IATA This product is not regulated as dangerous goods.
IMDG This product is not regulated as dangerous goods.

Section 15 – REGULATORY INFORMATION – applicable to AnneMaxx Biome - (AMGR) Canadian Regulations This product is not considered a regulated product in Canada.

Section 16 – OTHER INFORMATION – applicable to AnneMaxx Biome - (AMGR)

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Disclaimer The information contained herein is based on data available to us, and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed, or implied by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all appropriate federal, provincial, state, and local regulators remains the responsibility of the user.

Contact Information

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