



Material Safety Data Sheet

Smart Seed™

Pennington Seed Inc
Hwy 160 – Greenfield Industrial Park
Greenfield, MO 65661
417-637-5978

and

Seed Production Inc.
1280 Atlanta Highway
P.O. Box 290
Madison, GA 30650
404-342-1234
800-277-1412

and

Syngenta Crop Protection Inc.
P.O Box 18300
Greensboro, NC 27419
Emergency, 800-888-8372

and

Mycorrhizal Applications Inc
541-476-3985

Product Information

1

Smart Seed is Inoculated with MycoAdvantage™ and coated with Penkote®

Product Identification

Name: MycoAdvantage™

Chemical description: Beneficial endomycorrhizal propagules suspended in distilled water.

Hazardous components: NONE

Physical/Chemical Characteristics

Boiling point 213° F

Vapor pressure Same as water

Vapor density Same as water

Evaporation rate Same as water

Melting point Not applicable

Specific gravity 1.02-1.05

pH 6.0 – 6.7

Solubility in water 100% soluble

Appearance Brown liquid

Odor Not distinctive

Fire and Explosion Information

Flash point Not applicable
Flammable limits Not applicable
Extinguishing media Not applicable
Special Fire Fighting Procedures Does not burn
Special Fire and Explosion hazards Not explosive

Reactivity Data

Stability Stable at normal temperatures
Conditions to avoid Exhaust fans recommended for prolonged periods of fine misting.
Incompatibility None
Hazardous decomposition Will not occur
Hazardous polymerization Will not occur

Health Effects/First Aid information

Routes of entry:

Inhalation:

Eyes: May irritate on contact, wash out quickly.

Ingestion: Not toxic, but in large amounts can cause upper GI tract disturbance.

Skin: Contact with the skin is not toxic.

2

Signs/symptoms of exposure: Eye irritation and or sneezing.

Carcinogenicity: Ingredients not listed as carcinogenic in NTP or IARC listings. Not OSHA regulated.

Emergency and First Aid Procedures:

Inhalation:

Eyes: Flush immediately with water for 15 minutes, lift lids. See physician if irritation persists.

Ingestion: For small amounts, drink plenty of water. More than a mouthful should be purged by vomiting,

but only if the victim is conscious. Get medical help.

Skin: Wash gently with mild soap/detergent and flowing water. Wash contaminated clothing.

Precautions for Safe Handling and Use

Respiratory protection: If misting occurs use approved respirator to eliminate exposure.

Ventilation: Exhaust fan recommended to control any misting.

Protective gloves/clothing: Rubber or plastic recommended if repeated or prolonged contact expected.

Eye protection: Chemical splash goggles recommended where misting is expected. Safety glasses suffice otherwise.

Work practices: Use good housekeeping practices. Keep containers tightly closed.

Spills: Stop material flow at source. Recover for recycling/salvage if not contaminated by other material.

Waste disposal method: Small quantities may be flushed to drain sewer with water. Material not recyclable should be absorbed and placed in legal landfill.

Precautions in storing and handling: Avoid storage above 120° F. Keep containers tightly closed.

Product Identification

Name: Penkote® Seed

Hazard Ingredient:

Penkote® seed contains Apron (Mefenoxam) at the rate of one part of technical Apron in 9072 parts of seed. That would equal ½ ounce of 33.3% active Apron on one hundred pounds of seed.

Physical Properties:

Moisture: 12%

Ph: 6.5

Acid: Less than .001% Acetic

Less than .001% Acetic

Color: Green

Health Hazards

There would be minimal health hazards associated with the use of Penkote® seed as the only hazardous material used in Penkote® is Apron (Mefenoxam) The amount of Apron put on the seed is ½ ounce per 100 pounds of seed. Apron is 33.3% Mefenoxam. The amount of Mefenoxam on the seed would be one part in 9072 parts of seed. You would have to consume 9072 pounds of Penkote® seed to consume one pound of Mefenoxam.

Additional Information for Mefenoxam**Information on Mefenoxam**

Effects to eyes: Slight Irritant

Effects to skin: Slight Irritant

Route(s) of entry: Dermal

Effects of acute overexposure: Eye and skin irritation. Nausea, vomiting or diarrhea can occur if swallowed.

Effects of chronic overexposure: None currently known.

Emergency First Aid Procedures for Mefenoxam

Ingestion: If victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

Eye Contact: Immediately rinse eyes with a large amount of water. Hold eye and lids apart to rinse the entire surface of they eyes and lids. Do not apply any medicating agents except on the advice of a physician.

Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medication agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

Inhalation: Remove to fresh air and administer CPR if not breathing.

Normal Handling Procedures for Mefenoxam

Precautions to be taken in handling and storage: Do not get into eyes, on skin, or on clothing. Do not take internally. Avoid breathing fumes or spray mist. Upon contact, wash exposed areas with soap and warm water.

Protective Equipment

Eye: Safety Glasses

Gloves: Impervious

Other: Coveralls

Ventilation Requirements

Local exhaust or general ventilation required when dictated by local conditions.

The suppliers of this Material Safety Sheet warrant the information furnished heron to be accurate to the best of their knowledge and assume no other or further liability. They make no claim express or implied as to fitness or merchantability and in no case shall be liable for special, indirect, or consequential damages resulting in the use or handling of this product.