MATERIAL SAFETY DATA SHEET # 11649-A

Date Prepared: September 11, 2006

Manufacturer's/Preparer's Name Avitrol Corporation, 7644 E. 46th Street. Tulsa, OK 74145

Regular Telephone Number 918-622-7763

Emergency Telephone Numbers (Chemtrec) 800-424-9300 or 703-527-3887

PRODUCT NAMES (as shown on labels):

 Avitrol Mixed Grains US EPA Reg. No. 11649 – 4:
 CD PCPA Reg. No. 12098

 Avitrol Corn Chops US EPA Reg. No. 11649 – 6:
 CD PCPA Reg. No. 12095

 Avitrol Whole Corn US EPA Reg. No. 11649 – 7:
 CD PCPA Reg. No. 12096

This MSDS is applicable to Avitrol Sorghum 11649-3 & Avitrol Wheat 11649-1 which have been discontinued.

SECTION I - PRODUCT INFORMATION

Active Ingredient 4-Aminopyridine(CL): Synonyms 4-APCL; Chemical Family Pyridines; AND Formula $C_5H_6N_2$ -CL

These products are formulations of 0.5% 4-aminopyridine chloride impregnated grains. The 99.5% inerts consists of one of the above grains. These products contain no Volatile Organic Compounds.

SECTION II - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance Grain Odor None

Boiling Point Not Applicable Vapor Pressure (mm Hg.) Not Applicable Not Applicable Vapor Density (Air = 1) Not Applicable Specific Gravity ($H_2O = 1$) Not Applicable Melting Point Evaporation Rate (Butyl Acetate = 1) Not Applicable Not Applicable рН % Volatiles Not Applicable Solubility in H₂O Insoluble

SECTION III - HAZARDOUS INGREDIENTS "1": NON-HAZARDOUS INGREDIENTS "1"

Ingredient Name	CAS#	OSHA-PEL	ACGIH-TLV	OTHER	% .
4-Aminopyridine – (CL) [†]	504-24-5	NONE	NONE	NONE	0.50
Grain ^{††}	NONE	NONE	NONE	NONE	99.50

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: Not Applicable

Flammable Limits: UFL AND LFL Not Applicable Extinguishing Media: Dry Chemical, CO₂, Foam, Water

Degree of Fire/Explosion Hazard: No Known Fire or Explosion hazard. Grains will burn at higher temperatures.

Special Fire Fighting Procedures: Do not breathe smoke or vapors; isolate fire; wear full protective clothing and self-

contained breathing apparatus.

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatibility/Conditions to Avoid: Water, excessive heat, fire, chemicals. Burning may produce toxic by-products.

Hazardous Decomposition Products: Burning may produce any number of toxic products including but not limited to carbon

dioxide, carbon monoxide, chlorine and hydrogen chloride.

SECTION V - HEALTH HAZARD DATA

Primary Routes of Entry: Acute effects from overexposure may result from ingestion.

Acute Effects of Overexposure: There is no human specific data available for these products. The acute oral toxicity of

these products, as packaged, ranges from an LD-50 of about 700 mg/kg for some avian species to an LD-50 of about 6,500 mg/kg for white rats. Laboratory animals, when

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