

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

ARTHROBAN PLUS TURF FERTILIZER 21-0-5

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I Mixture

Manufacturer's name TURF LINE FERTILIZER, INC.	Emergency Telephone Number (585) 334-4574
Address (Number, Street, City, State and ZIP Code) 1225 LEHIGH STATION ROAD	Telephone Number for Information (585) 334-4574
HENRIETTA, NY 14467	Date Prepared 03/29/2012
	Signature of Preparer (optional)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV
Activated Sewage Sludge (biosolids, dried microbes) (CAS # 8049-99-8)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Potash (CAS # 7447-40-7)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Urea (CAS # 57-13-6)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Potassium Magnesium Sulfate (CAS # 14977-37-8)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Micronutrient Mix (CAS # not listed)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
UFLEXX (CAS # 57-13-6)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Imidacloprid (CAS # 138261-41-3)		

Section III—Physical/Chemical Characteristics

Boiling Point	NA	Specific Gravity (H ₂ O = 1)	NA
Vapor Pressure (mm Hg)	NA	Melting Point	NA
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	NA
Solubility in Water	Partially soluble		
Appearance and Odor	Multi-colored granular mix, with slight ammonia odor		

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used) Not Flammable

Flammable Limits NA

LEL NA

UEL NA

Extinguishing Media Use media suitable for surrounding fire

Special Fire Fighting Procedures Wear full protective clothing and positive-pressure self-contained breathing apparatus

Unusual Fire and Explosion Hazards Decomposition products may be toxic

Section V—Reactivity Data

Stability Unstable

Conditions to Avoid Excessive heat (greater than 200° F)

Stable X

Incompatibility (Materials to Avoid) Strong oxidizers, acids, hypochlorites

Hazardous Decomposition or Byproducts HCN, NO_x, CO_x, NH₃, cyanuric acid

Hazardous Polymerization

May Occur

Conditions to Avoid

Will Not Occur X

Section VI—Health Hazard Data

Route(s) of Entry

Inhalation? X

Skin? X

Ingestion? X

Health Hazards (*Acute and Chronic*) May be irritating to the nose and respiratory tract, and may cause sore throat, coughing and shortness of breath. Skin irritation may result from repeated or prolonged exposure. May also be irritating to the eyes, causing redness and watering. Prolonged eye exposure may cause conjunctivitis and corneal damage. Ingestion may result in abdominal pain, nausea, and diarrhea.

Carcinogenicity None known

NTP? No

IARC Monographs? No

OSHA Regulated? No

Signs and Symptoms of Exposure

Medical Conditions Generally Aggravated by Exposure Pre-existing respiratory, skin, or eye conditions

Emergency and First Aid Procedures

IF SWALLOWED: If victim is alert and not convulsing, give one glass of water to dilute material, but DO NOT induce vomiting. Seek immediate medical attention.

IF INHALED: Move victim to fresh air. Seek medical attention if irritation persists.

IF IN THE EYES: Immediately flush with water for at least 20 minutes. Seek medical attention if irritation persists.

IF ON SKIN: Shower/wash affected areas with soap and water. Seek medical attention if irritation persists. Wash contaminated clothing before re-use.

CARCINOGENICITY: None of the ingredients are known / listed carcinogens. However, the product may contain trace amounts of crystalline silica, which are listed by IARC as a potential human carcinogen.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled Collect spilled product and store to re-use. Contaminated product and/or environmental media should be recovered and disposed of properly.

Waste Disposal Method Read product label before disposing of product and container. Dispose of in accordance with all federal, state and local regulations. Reuse recovered product where possible.

Precautions to Be Taken in Handling and Storing Read product label before handling. Use only as directed on the label. Keep out of reach of children. Store in a cool, dry, well-ventilated area.

Other Precautions Wash completely after use

Section VII—Control Measures

Respiratory Protection (*Specify Type*) NIOSH approved pesticide respirator recommended, if required

Ventilation	Local Exhaust	Recommended	Special handling	Applicators should stand upwind when handling
	Mechanical (<i>General</i>)	NA	Other	
Protective Gloves	Impermeable gloves recommended		Eye Protection	Safety glasses with side shields, goggles or face shield are recommended
Other Protective Clothing or Equipment		Long sleeves recommended		
Work/Hygienic Practices		Wash clothing after use		

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