

Material Safety Data Sheet Top Choice Organic® Fertilizer

Section 1. Chemical Product and Company Information

Product Identifier		Top Choice Organic®	
Product Use		Soil Amendment, Fertilizer, or Alternative Fuel.	
Manufacturer	Metropolitan Government of Nashville and Davidson County Department of Water and Sewerage Services 1600 Second Avenue North Nashville, TN 37208 Phone: 615-862-4885		
Distributor	Mannco Fertilizer 1010 Hogan Ln. Ste 5 Conway, AR 72034 Phone: 501-327-1771		
Emergency Phone Number	Chemtrec (800) 424-9300		
MSDS Prepared By	Roy Denney	Date Prepared	October 24, 2008
Revised By		Revision Date	
Revision Number	1.00		

Section 2. Composition/Information on Ingredients

Name	% of Weight	CAS #
Heat Dried Anaerobically Digested Sewage Solids	90% - 97%	
Water	Balance*	7732-18-5
*Trace metals can be detected in quantities less than 1.0%, most less than 0.1%.		
Exposure Levels: OSHA Nuisance Dust Limit of 15 mg/M3 (total) and 5 mg/M3 (respirable) ACGIH Nuisance Dust Limit of 10 mg/M3 (total) and 3 mg/M3 (respirable)		

Section 3. Hazard Identification

Primary Routes of Entry	Skin No Inhalation No Eye No Ingestion Yes
Signs and Symptoms of Exposure	Acute: None known Chronic: Darkened stool.

Section 4. First Aid Measures

Eye Contact	Flush with water. Remove contact lenses. Continue flushing with water for 15 minutes. Seek medical attention if irritation persists.
Skin Contact	After skin contact, or after use, wash skin with soap and water.
Inhalation	If difficulty breathing should occur, immediately remove to fresh air. If symptoms persist, seek medical attention.

Ingestion	If ingestion occurs seek medical attention. Treat symptomatically.
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Section 5. Firefighting Measures

Flash Point	Not Available	LEL	ND	UEL	ND
NFPA HIMS rating	Health: 1	Fire: 1	Reactivity: 0		
Fire Fighting Procedures	Firefighters should wear normal fire protection gear. Control runoff and protect drains, sewers, and bodies of water. Do not breathe fumes. Material is slippery when wet,				
Unusual Fire or Explosion Hazard	Bulk wetted material may generate heat increasing the risk of a fire during storage. Fugitive dust can create an explosive atmosphere. Control dust through adequate ventilation or an approved oil coating, not water. Heated material may give off undefined fumes. Do not breathe fumes.				

Section 6. Accidental Release Measures

In Case of Accidental Spills: Sweep, shovel, or use explosion resistant vacuum to clean up. Put in labeled container(s). Prevent material from getting into drains, sewer, or bodies of water. If possible reuse product. Ensure that disposal is in compliance with local, state and federal regulations.

Section 7. Handling and Storage

Handling: Handle as a fertilizer. Do not breathe dust or fumes. Wash hands after handling.

Storage: Store in a cool, dry area inaccessible by children and animals. Prevent wetting material during storage. Bulk wetted material may generate heat. For more information on storage visit: <http://www.epa.gov/owm/mtb/biosolids/fsguide/index.htm>

Section 8. Exposure Control / Personal Protection

Eye Protection	Wear goggles or safety glasses when eye contact may occur. Avoid touching eyes or face after handling product.
Skin Protection	Skin protection and/or proper hygiene, including washing hands after contact, are recommended.
Respiratory Protection	In confined spaces ensure proper ventilation. In case of fire an organic vapor filter cartridge mask or a SCBA can be used to avoid breathing fumes. Use a cartridge mask with a filter for particulate matter if the dust level is above the threshold value.
Other	Wear appropriate safety equipment for hazards encountered. Product by itself presents no specific hazards.

Section 9. Physical and Chemical Properties

Description	Biosolids pellets
Appearance	Dark granules, 1mm to 4mm in diameter, free flowing
Odor	Earthy odor
Bulk Density	35 to 55 pounds per cubic foot
Solubility	Slight solubility in water
pH	Slightly acidic

Section 10. Stability and Reactivity

Chemical Stability	Stable
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Conditions to Avoid	Avoid high heat, high moisture, and high humidity while in bulk storage.
Incompatibility	Strong acid, strong alkali, and oxidizing agents
Hazardous Decomposition Products	Expected to emit same types of toxic smoke as would be released during combustion of other organic materials.
Hazardous Polymerization	Will not occur

Section 11. Toxicological Information

Oral	No Data
Dermal	No Data
Inhalation	No Data
Eye contact	May cause irritation.
Carcinogen, Mutagen, Teratogen	Not Listed by OSHA, IARC, or NTP
Other Information	
<p>US EPA 40 CFR 503</p> <p>The US Environmental Protection Agency [EPA] started developing US EPA 40 CFR Part 503 [The Part 503 Rule] in 1984 to address the reuse and disposal of wastewater residual solids from domestic sewage [biosolids]. Pulling from decades of research and testing hundreds of possible contaminants, the EPA evaluated which contaminants presented a risk based on levels found in domestic sewage, bioavailability, and soil loading rates. For information on the risk assessment, please visit: http://www.epa.gov/owm/mtb/biosolids/503rule/index.htm.</p> <p>For the EPA responses to several frequently asked questions please visit: http://www.epa.gov/owm/mtb/biosolids/genqa.htm.</p> <p>The Part 503 rule regulates the limits of pathogenic organisms, nine common metals, and compounds that attract vectors (nuisance animals which can carry diseases such as pigeons, rats, mice, cockroaches, etc) in biosolids. The rule also establishes different grades of biosolids where Class A Exceptional Quality [EQ] biosolids are material with particularly low pollutants, very stringent pathogen reductions (virtually absent of pathogens) and have a reduced level of compounds that attract vectors. For further information see the EPA publication “A Plain English Guide to the EPA 503 Biosolids Rule” available at: http://www.epa.gov/owm/mtb/biosolids/503pe/index.htm.</p> <p>The National Biosolids Partnership [NBP] has information and reference regarding the safe use of biosolids and links to applicable state regulations which may apply in your area. http://www.biosolids.org/.</p> <p>Top Choice Organic will meet USEPA Class A Exceptional Quality Standards.</p>	
US EPA 40 CFR Part 503 Metals Concentration Limits	
Metals	Exceptional Quality Limits (mg/kg)
Arsenic(As)	41

Cadmium (Cd)	39
Chromium (Cr)*	1200
Copper (Cu)	1500
Lead (Pb)	300
Mercury (Hg)	17
Nickel (Ni)	420
Molybdenum (Mo)**	N/A
Selenium (Se)	36
Zinc (Zn)	2800

* Chromium was removed from the list of 503 Pollutants measured in 1996

** Molybdenum is only track for the ceiling concentration. There is not a separate level for EQ material.

Section 12. Ecological Information

Keep out of bodies of water.

Section 13. Disposal Considerations

Waste Disposal Methods

Sweep, shovel, or use explosion resistant vacuum to clean up. Put in labeled container(s). Prevent material from getting into drains, sewer, or bodies of water. If possible reuse product. Material is a fertilizer, use as such. Ensure that disposal is in compliance with local, state and federal regulations. Keep material dry. Bulk wetted material may generate heat during storage.

Section 14. Transportation Information

Proper shipping name	Fertilizer material
DOT ID Number	NA
Hazard Class	NA
CERCLA	Not Listed
SEC 302	Not Listed
SEC 304	Not Listed
SEC 313	Not Listed
CAA	Not Listed
TSCA	Not Listed

Section 15. Regulatory Information

SARA Information	
Immediate (Acute) Health	No
Delayed (Chronic) Health	No
Sudden Release of Pressure	No
Reactivity	No
Fire	Yes

Section 16. Other Information

Disclaimer: This information related to this specific product for its specified uses as listed in Section 1 and may not apply to this product used in combination with other products or for other purposes. The information provided is believed to be correct as of the date compiled. No warranty, expressed or implied, regarding the merchantability, or suitability or fitness for a particular purpose or of any other nature is provided here in. We do not accept liability for any loss or damage that may occur from the use of this information. Individuals receiving this information are expected to exercise independent judgment in determining the appropriateness for a particular use in accordance with any applicable local, state, and federal laws and regulations.

Some state and local regulations may apply to the use of this material. It is the end users responsibility to ensure safe use in compliance with all local, state and federal laws.