



Safety Data Sheet Centrifuge Generated Commercial Fertilizer General Information



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Description and uses	Commercial fertilizer produced by the City of Chattanooga Moccasin Bend Wastewater Treatment Plant meets federal regulatory quality standards and are non-hazardous. This fertilizer is approved by the Tennessee Department of Agriculture and the Tennessee Department of Environment and Conservation.		
Processing facility	Moccasin Bend Wastewater Treatment Plant 455 Moccasin Bend Road Chattanooga, TN 37405 (423) 643-7400		
Product characteristics			
Appearance	Dark brown, moist solid "cake"		
Ingredients	Water, organic solids (humus), inorganics		
Total solids	Typically 35% total solids; may vary		
Moisture	Typically 65% moisture; may vary		
Odor	Earthy, musty odor with hint of ammonia and lime		
pH, std units	Typically 11 to 12; may vary		
Density	1,692 lbs/yd ³		
Nutrients % dry weight	Organic nitrogen 3.7%; phosphorous 0.9%; potassium 0.28%; calcium (CaO equiv.) 3.7%. <i>Nutrients not guaranteed</i>		
Regulated metals mg/kg dry (ppm)*	Metal	EPA 503 Limits	MBWWTP**
	Arsenic	41	3.31
	Cadmium	39	1.14
	Chromium	3,000	20.64
	Copper	1,500	103.32
	Lead	300	20.53
	Mercury	17	0.21
	Molybdenum	1,500	5.06
	Nickel	420	21.33
	Selenium	100	9.53
	Zinc	2,800	469.97
* Data averaged over 62 sampling events in 2021. ** Meets EPA's high quality standards (EPA 40 CFR Part 503.13).			
Pathogen/vector attraction reduction	Meets regulatory requirements. Meets Alternate 6, Process to Significantly Reduce Pathogens by the addition of alkali.		



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Hazard Data

Fire	Not normally combustible and must be pre-dried to high solids content to have combustion potential. Use dry chemical, water, spray or foam to extinguish fires.
Explosion	Little or no potential for explosion unless in an airtight container where buildup of methane gas could cause the container to expand and burst.
Odors	May have an odor, primarily from nitrogen and sulfur compounds, which is not harmful in well-ventilated areas. In a confined area, such as a delivery truck, ammonia and lime odors may be strong; ventilate before entering.
Gases	Product does not create significant quantities of gas. Methane and hydrogen sulfide will form. Ammonia may form, but not in hazardous or toxic concentrations.

Handling Precautions

In case of spill	Use shovels or loader to refill truck and landfill. Residue may create slick driving conditions. Follow up with sand and cleanup. May be placed in a landfill if mixed with rocks or other debris from accident or spill. Disposal in landfill not recommended unless necessary.
Hygienic practices	Commercial fertilizer product is treated to reduce pathogens. However, follow common sense cleanliness and hygienic practices (wear gloves, wash hands after handling and before eating, avoid ingestion or contact with eyes, nose or open wounds).

Control Measures

Respiratory	No respiratory protection required in open areas. However, limit exposure in confined areas.
Ventilation	In open area, no ventilation is necessary. Additional ventilation may be required in a confined area.

Transportation Data

Containers	High density and viscosity may deform unreinforced containers. Haul only in approved dump trucks, dump trailer, roll-off containers and spreader trucks. May react like a liquid load during sudden stops.
Certifications	Tennessee Department of Agriculture Commercial Fertilizer.
Applier	Denali Water Solutions, LLC Aaron Loyd Environmental Services Manager 256-221-9816