

MATERIAL SAFETY DATA SHEET

IDENTITY (As Used On Label)		Clarus™ 100™ Aux-n-ite® (5-4-0)		Date Prepared 5/1/2010	
SECTION 1. Product and Company Information					
Distributor's Name: Nutrients PLUS, LLC		Emergency Telephone Number		757 573-8741	
Address (Number, Street, City, State and Zip) 2133 Upton Drive, Ste 126-509, Virginia Beach, VA 23454		Telephone Number for Information		888 675-7515 (x4)	
Manufacturer's Name: Louisville Green		Emergency Telephone Number		800-424-9300 Chemtrec	
Address (Number, Street, City, State and Zip) 4522 Algonquin Parkway, Louisville, KY 40211		Telephone Number for Information		502-540-6774	
SECTION 2. Composition and Information on Ingredients					
Hazardous Components (Specific Chemical)					
Identity: Common Name (CAS #)		% of Weight	OSHA PEL	ACGIH TLV	Other Limits Recommended
*Biosolids (308066-19-5)		93-96	15mg/m ³	10mg/m ³	N/A
Water (7732-18-5)		Balance	5mg/m ³	5mg/m ³	N/A
* Trace metals can be detected in the finished product typically in quantities less than 1.0%, most less than 0.1%					
SECTION 3. Hazards Identification					
Emergency overview		May form explosive dust-air mixtures			
SECTION 4. Physical / Chemical Properties					
Description		Pellets, Fertilizer			
Boiling Point		N/A			
Vapor Pressure		N/A			
Vapor Density		N/A			
Solubility In Water		N/A			
pH		Slightly acidic			
Odor		Earthy			
Specific Gravity		30-55 lbs ft ³			
Melting Point		N/A			
Appearance		Dark free flowing granules			
Evaporation Rate (Butyl Acetate = 1)		N/A			
% Volatile by weight		N/A			
SECTION 5. Fire and Explosion Hazard Data					
Flash Point		Minimum Ignition Energy; 100-300mJ/Minimum Ignition Temperature; 540-560°C/Minimum Explosive Concentration; 40-50G/m ³			
Flammability		Does not sustain combustion when exposed to 1000°C flame as verified by SW-846 Method Analysis. Bulk wetted material may generate heat upon storage causing a potential for fire.			
NFPA Rating		Health -1 Fire-1 Reactivity-0			
Explosive Limits in Air		LEL: ND UEL: ND			
Unusual Fire and Explosion Hazards		Do not breathe fumes. At high temperatures, this type of fertilizer can give off undefined fumes fine. Dust dispersion in air may form an explosive mixture. Do not spray with water. Bulk wetted material may generate heat upon storage causing potential for fire.			
Fire Fighting Media & Instructions		Firefighters should wear normal fire protection gear. Prevent runoff from entering drains, sewers, or any body of water. Becomes slippery when wet. Do not breathe fumes			
SECTION 6. Stability & Reactivity Data					
Stability		Stable			
Conditions of Instability		Keep away from heat, sparks, open flame, moisture and high humidity			
Incompatibility (Materials to Avoid)		Strong acids, alkalis, and oxidizing agents.			
Hazardous Decomposition or Byproducts		Expected to emit the same type of toxic smoke as would be released during combustion of other organic materials			
Hazardous Polymerization		Will not occur			
SECTION 7. First Aid Measures					
Eye Contact		Immediately flush eyes thoroughly with water, remove any contact lenses, and continue to flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.			
Inhalation		If breathing difficulty should occur, remove to fresh air. If symptoms of illness continue, seek medical attention.			
Ingestion		If ingestion occurs, seek medical attention.			
Skin Contact		In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.			
Carcinogenicity		Not listed as carcinogenic by OSHA, NTP or IARC			
US EPA 40 CFR Part 503 (Biosolids Rule)		Under the Clean Water Act, the U.S. Environmental Protection Agency (EPA) has conducted extensive screening to determine likely pollutants in sewage sludge, a/k/a biosolids. EPA's National Survey of Biosolids analyzed for a total of 412 pollutants, including every organic, pesticide, dibenzofuran, dioxin and PCB analyte for which EPA had gas chromatography and mass spectrometry (GC/MS standards. 64 Fed. Reg. at 72047-48 (discusses the history of Part 503 information gathering on the fate and concentrations of pollutants in biosolids). See, www.epa.gov/fedrgstr . Where the available scientific information indicated there was no risk of harm even at the highest pollutant concentration level found in the Biosolids Survey, the pollutants were dropped from further risk assessment. Most of the 412 pollutants are simply not present in biosolids at levels of concern. The National Standards for Biosolids Use, 40 CFR Part 503, establish limits for nine common metals and pathogenic organisms (which heat drying kills) at the no observable adverse effect level and a level of protection of 1 case in 10,000 for cancer risk. The 1993 technical support documents on biosolids risk assessment are available at EPA's website: www.epa.gov/OST/pc/municipal.html , and the National Biosolids Partnership also links the scientific risk assessments, www.biosolids.policy.net			

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US EPA 40 CFR Part 503 (Biosolids Rule) cont'd	Louisville Green is well below the Part 503 national standards. Where EPA lacked sufficient available scientific data to establish a standard, the pollutants, totally, 31, were subjected to a Comprehensive Hazard Identification Study. This screening analysis included dose-response evaluation, exposure assessment and risk characterization. The US EPA concluded, in a December 23, 1999 notice published at 64 Federal Register 72048, that only 3 pollutant compounds left on its list, analytically measured as 29 dioxin-like congeners, might pose an increase risk for a hypothetical highly exposed (through the food chain, primarily dairy fats, meat fats and fish that have bioaccumulated the congeners) rural breast feeding mother and child. EPA has proposed a national standard and a final standard is expected after EPA completes its comprehensive Dioxin Reassessment, see, http://cfpub.epa.gov/ncea/index.cfm
SECTION 8. Precautions For Safe Handling and Use	
Accidental spills	Sweep, vacuum or shovel material into labeled containers. If possible, reuse product. Ensure that disposal is in compliance with local, state, or federal regulations.
Waste Disposal Method	Sweep, vacuum or shovel material into labeled containers. If possible, reuse product. Material is a fertilizer and should be used as such. Keep out of any body of water. Ensure compliance with local, state or federal regulations. Bulk wetted material may generate heat during storage.
Handling Storage	Avoid breathing dust, wash hands after handling. Keep dry. Store in a cool, dry area out of reach of children and animals. Bulk wetted material may generate heat upon storage. For storage recommendations, refer to the EPA's Guide to Field Storage of Biosolids. This document can be found on the EPA's website at http://www.epa.gov/owm/mtb/biosolids/fsguide/index.htm
SECTION 9. Control Methods	
Eye Protection	Wear eye google/safety glasses if product may be expected to come in contact with eyes.
Ventilation Requirements	None required under normal use conditions. For occupational situations, use sufficient ventilation to keep dust levels below their Threshold Limit Values (See Section 2.)
Skin Protection	Skin protection is suggested for outdoor applications and emergency response.
Respiratory Protection	Self-contained breathing apparatus (SCBA) should be used by emergency responders to avoid breathing dust and fumes during a fire situation. In normal conditions, half face or full face respirators with HEPA cartridges is suggested when dust levels exceed the Threshold Limit Values.
Other Protection	Wear appropriate safety equipment for any hazards encountered. Product by itself presents no specific hazards.
Work/Hygienic Practices	Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.
SECTION 10. Transportation Information	
Proper Shipping Name	Fertilizer material
DOT Identification Number	N/A
Hazard Class	N/A
SEC 302	Not Listed
SEC 304	Not Listed
SEC 313	Not Listed
CERCLA	Not Listed
CAA	Not Listed
TSCA	Not Listed
SECTION 11. Regulatory Information	
Federal and State Regulations	Yes Fire
	No Sudden Release
	No Reactivity SARA Title III Information
	No Immediate Health
	No Delayed Health
Other Information	
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