

MATERIAL SAFETY DATA SHEET

IDENTITY (As Used On Label)		Clarus™ PRO™ Big-K-Matters (7-2-12)		Date Prepared 5/1/2010	
SECTION 1. Product and Company Identification					
Distributor's Name Nutrients PLUS, LLC			Emergency Telephone Number		(800) 424-9300 Chemtrec
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)
SECTION 2. Composition and Information on Ingredients					
Identity: Common Name (CAS #)		OSHA PEL	ACGIH TLV	Other Limits Recommended	
*BioSolids (308066-19-5)		Total Dust Exposure 15 mg/m ³	10mg/m ³		
		Respirable Fraction 5mg/m ³	3mg/m ³		
Composted Poultry Manure (N/A)		N/A	N/A		
Ammonium Sulfate (7783-20-2)		N/A	N/A		
Urea (57-13-6)		N/A	N/A		
Sulfate of Potash (7778-80-5)		N/A	N/A		
*Trace metals can be detected in the finished product in quantities less than 1.0% with most less than 0.1%.					
This product meets all requirements of 40 CFR Part 503 for "EQ" biosolids					
SECTION 3. Health Hazards Identification					
Primary route(s) of entry		Inhalation (dust), Eye and Skin Contact, Ingestion			
Signs and Symptoms of Exposure		Inhaled dust may cause some respiratory irritation. Contact with the eye and skin may produce irritation and/or redness. Ingestion of extremely small quantities of dust could be possible when mixed with nasal and throat mucus without symptoms. Individuals with respiratory ailments, such as asthma, may be particularly sensitive to dust exposure.			
Carcinogens		This product may contain traces of substances considered to be carcinogens by OSHA, IARC, NTP, however not in quantities greater than 0.1%.			
SECTION 4. First Aid Measures					
Inhalation		In the event breathing becomes difficult move to fresh air. If normal breathing does not return or symptoms of illness occur obtain medical attention.			
Ingestion		This is not an expected route of exposure, however if a significant quantity is ingested, consult with a physician.			
Eye Contact		Flush eyes with clean water continuously for at least 15 minutes. Lift eyelids while flushing to allow water in and dust particles out. (contact lenses must be removed) Obtain medical attention if condition persists.			
Skin Contact		Wash skin thoroughly with soap and water until product is removed.			
SECTION 5. Physical / Chemical Properties					
Boiling Range		N/A			
Melting Point		N/A			
Evaporation Rate		N/A			
Vapor Pressure		N/A			
Vapor Density		N/A			
Bulk Density		35 to 45 lbs/ft ³			
Percent Moisture		2 to 5%			
Odor		Earthy, organic			
Solubility		Slight			
Reactivity in Water		Non reactive. Small amounts of water may cause this product to heat by encouraging biological activity. Keep dry.			
Appearance		Blend of ingredients listed above.			
% Volatile		Negligible.			
SECTION 6. Fire and Explosion Hazard Data					
Flash Point		N/A			
Autoignition Temperature		N/D			
Flammable Limits in Air, % by Volume		N/D			
Fire		Combustible solid may generate carbon, sulfur and nitrogen oxides during combustion.			
Explosion		Dust passing the Tyler Screen 40 mesh possesses the following characteristics: (dust used in this test was generated during handling) Explosion Severity - 0.91 Minimum Explosive Concentration - 0.105 oz./ft ³ Minimum Ignition Temperatures - dust cloud - 365 degrees C dust layer - 170 degrees C			
Extinguishing Media		Water, dry chemical, foam			
Special Fire Fighting Procedures		None, normal full protective gear with self-contained breathing apparatus as in any firefighting situation.			
SECTION 7. Stability & Reactivity Data					
Stability		Stable under ordinary conditions and use.			
Incompatibilities		Do not mix with oxidizers such as nitrate fertilizers, as this may initiate and/or accelerate combustion.			
Conditions to Avoid		Heat, sparks, open flames, oxidizing agents			
Hazardous Decomposition Products		Oxides of carbon, sulfur, and nitrogen may be formed as a result of combustion.			
Hazardous Polymerization		Will not occur			

MATERIAL SAFETY DATA SHEET

SECTION 8. Special Precautions and Spill Procedures	
Release or spill	Clean up and use per instructions or follow local, state and federal regulations for disposal of non-hazardous heat-dried sewage sludge.
Precautions to be taken in handling and storage	Keep biosolid pellets dry during storage, as moisture content that exceeds 10% (by weight) will cause spontaneous biological heating potentially leading to combustion. Equipment used to process biosolids pellets should be electrically bonded to ground. Use electrically conductive pneumatic transport lines to prevent static electricity discharge. Enclosed process equipment should contain relief vents, explosion suppression systems, and or an oxygen deficient atmosphere. Prevent an accumulation of dust or dust leaks in process equipment. Keep all ignition sources away from this product.
SECTION 9. Exposure Controls / Personal Protection	
Engineering Controls	Dust collection equipment must be used in order to maintain dust levels below exposure limits
Ventilation Procedure	Remove dust with fans or ventilation suction lines
Work Practice Controls	Housekeeping procedures must be adequate to minimize dust accumulation on equipment and indoor surfaces. Dust collection containers must be emptied carefully to minimize air-borne particles and exposure. Good personal hygiene practices must also be followed, including washing thoroughly and frequently.
Respiratory Protection	A NIOSH approved respirator equipped with P 100 particulate filters should be used whenever the potential exists for exposure to high levels of dust when performing a particular procedure (i.e. cleaning dust collection bag houses) Storage bins containing this material may become oxygen deficient due to biological respiration. Use confined space entry procedures when entering enclosed bins or silos.
Other Protective Equipment	Safety Glasses, goggles or a full-face respirator to protect eyes, various types of gloves, and disposal coveralls or body suits may be used to reduce contact.
<p>Notice to Reader :</p> <p>All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion, the information is, as of this date of the Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee is expressed or implied as to the results to be obtained based upon your use of this information.</p>	