

SAFETY DATA SHEET

IDENTITY (As Used On Label)

Clarus PRO The Titan (20-1-5)

Date Prepared 6/15/2015

SECTION 1. Product and Company Identification**Distributor's Name** Nutrients PLUS, LLC**Emergency Tel. No.**800-424-9300 *Chemtrec***Address (Number, Street, City, State and Zip)**
2133 Upton Drive Ste 126-509, Virginia Beach, VA 23454**Tel. No. 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	
Sulfate of Potash (7778-80-5)		N/A	N/A	
Sulfur Coated Urea (57-13-6) (7704-34-9)		N/A	N/A	
Urea (57-13-6)		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%.
 Warning MAY BE HARMFUL IF SWALLOWED MAY CAUSE MILD SKIN IRRITATION MAY CAUSE EYE IRRITATION MAY CAUSE RESPIRATORY IRRITATION	

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
Skin Contact	Wash skin thoroughly with soap and water until product is removed

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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
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.
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