

SAFETY DATA SHEET

IDENTITY (As Used On Label)

Clarus PRO The Whole Shebang (6-2-4)

Date Prepared 6/15/2015

SECTION 1. Product and Company Identification

| | | |
|---|--|---|
| Distributor's Name Nutrients PLUS, LLC Address (Number, Street, City, State and Zip) 2133 Upton Drive Ste 126-509, Virginia Beach, VA 23454 | Emergency Tel. No. Tel. No. For Information | 800-424-9300 <i>Chemtrec</i> 888-675-7515 (x4) |
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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 | |
| Sulfate of Potash (7778-80-5) | | N/A | N/A | |
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*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

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| 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

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| 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 | |
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| 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. |
| <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> | |