



| 13. DISPOSAL CONSIDERATIONS | | | | | | |
|--|---|---------------------------------------|-----------------------------|-------------|-------------------------------|------------|
| WASTE RESIDUE AND CONTAMINATED PACKAGING DISPOSAL | Triple rinse container, add rinsate to spray tank. Refer to manufacturer or supplier for information on container recovery or recycling. Dispose of packaging in a manner consistent with federal, state and local regulations. | | | | | |
| 14. TRANSPORTATION INFORMATION | | | | | | |
| US DOT TRANSPORT HAZARD CLASS | Not regulated. | LABELS & PLACARDS REQUIRED | None | | | |
| UN NUMBER | Not Available | | | | | |
| PACKING GROUP | Not Applicable | | | | | |
| MARINE POLLUTANT | Prevent spill from entering sewage or drainage systems and bodies of water. See section 12. | | | | | |
| 15. REGULATORY INFORMATION | | | | | | |
| CA PROP. 65 | This product does not contain any chemicals known to state of California to cause cancer and birth defects or other reproductive harm. | | | | | |
| TSCA / CAA / CWA / CERCLA | Under U.S. CERCLA not listed. | | | | | |
| SARA TITLE III | This product contains the following toxic chemical material(s) with known CAS numbers subject to reporting requirements established by SARA Title III | | | | | |
| | SARA Section 311/312 Hazard Categories | | SARA Section 313, Component | | SARA Section 302, section 304 | |
| | Pressure | No | Component | CAS# | 302 EHS TPQ | 304 EHS RQ |
| | Reactivity: | No | None | Proprietary | Not Listed | Not Listed |
| | Immediate (Acute): | Yes | | | | |
| | Delayed (Chronic): | No | | | | |
| | Fire: | No | | | | |
| INTERNATIONAL REGULATIONS | CANADA: WHMIS Not Available. DSL/NDL: Not Listed | | | | | |
| 16. OTHER INFORMATION | | | | | | |
| ISSUE DATE | December 10, 2015 | Revised: 12/10/2015 | | | | |
| SUPERCEDES | All previous versions | | | | | |
|  | The information contained herein is accurate to the best of our knowledge. Bio-Gro, Inc. makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Chemical additions, processing, or otherwise altering this material may make information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. All Rights Reserved. | | | | | |

| BioGro, Inc. SAFETY DATA SHEET Plant X Roots B | | | |
|---|---|--|--------------------|
| 1. IDENTIFICATION | | | |
| MANUFACTURER/ OR SUPPLIER'S NAME Bio-Gro, Inc. | | TELEPHONE NO./ AFTER HOURS EMERGENCY (509) 894-4110 / (800) 738-7457 | |
| MAILING ADDRESS PO Box 326 Mabton WA 98935 | | MANUFACTURING ADDRESS 681 Glade Rd / Mabton WA 98935 | |
| PRODUCT NAME Plant X Roots B | | WEBSITE www.BioGro.com | |
| CHEMICAL FAMILY , SYNONYMS AND TRADE NAMES Fermented Plant Material | | RECOMMENDED USE OR RESTRICTIONS OF THE CHEMICAL Agricultural Mineral/Fertilizer | |
| 2. HAZARD(S) IDENTIFICATION | | | |
| SIGNAL WORD WARNING | HAZARD STATEMENT H315: Cause skin irritation. H319: Causes serious eye irritation. | PRECAUTION STATEMENT Wear protective gloves/protective clothing/eye protection. Do not handle until all safety precautions have been read and understood. Do not taste or swallow. | |
| SYMBOL(S)  | | | |
| 3. MIXTURE COMPOSITION / INFORMATION ON INGREDIENTS | | | |
| COMPONENT | CAS NUMBER | BY WEIGHT | HAZARD DATA |
| Proprietary solution containing plant nutrients derived from Ammonium Hydroxide and Iron Ethylenediaminetetraacetic acid. Guaranteed Analysis: Nitrogen(N) 1% Iron (Fe) 0.25% | Proprietary | 100% | See Section 2 |
| 4. FIRST-AID MEASURES | | | |
| EYE CONTACT | Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Seek medical attention if irritation persists. | | |
| SKIN CONTACT | Wash with soap and plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: get medical advice. | | |
| INHALATION | Remove person to fresh air and keep comfortable for breathing. Seek medical attention. If not breathing, give artificial respiration if trained to do so. | | |
| INGESTION | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell. | | |

| 5. FIRE-FIGHTING MEASURES | |
|---|--|
| EXTINGUISHING MEDIA | Use extinguishing media suitable for surrounding materials to extinguish fire. |
| HAZARDOUS PRODUCTS OF COMBUSTION | Hazardous products of combustion could include nitrogen oxides. |
| FIRE FIGHTING PRECAUTIONS | The use of self-contained breathing apparatus (SCBA) and full protective clothing is recommended for fire-fighters for chemical fires. Dike and collect water used to fight fire for later treatment and disposal. |

| 6. ACCIDENTAL RELEASE MEASURES | |
|----------------------------------|---|
| PERSONAL PRE-CAUTION | Observe personal protective equipment in Section 8. Keep unnecessary and unprotected personnel from entering. |
| CONTAINMENT AND CLEANUP | Contain spill with dry earth or sand. Collect spillage and place material in a suitable container for disposal. See Section 13. Do not flush into local waterways, drains, or potable water source. |
| ENVIRONMENTAL PRECAUTIONS | It should only be used as part of an overall agricultural mineral program that is based on recommendations from soil and tissue analysis. |

| 7. HANDLING AND STORAGE | |
|-------------------------|--|
| HANDLING | Wear personal protective equipment (PPE section 8). Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Do not eat, drink or smoke when using. Wash thoroughly with soap and water after handling. Wash PPE after use with this product. |
| STORAGE | Store in original packaging. Keep upright. Store out of direct sunlight in a well ventilated area. Do not over-heat. Do not store below freezing. Store away from incompatible materials (see section 10). Maintain air gap. Keep away from children, feed and food products. |

| 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION | |
|---|---|
| ENGINEERING CONTROLS | Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. Practice good industrial hygiene and safety standards. Do not eat, drink or smoke in work areas. Use in accordance with the agricultural worker protection standard, CFR Part 170. Do not apply this product in a way that will contaminate workers or other persons. |
| EYE/FACE PROTECTION | Wear appropriate protective eyeglasses with side-shield or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. |
| SKIN PROTECTION | Avoid skin contact by wearing chemical resistant gloves, long sleeves and long pants, coveralls, socks, and boots. Wear appropriate clothing to prevent skin exposure. The type of protective equipment used should be equivalent to the concentration of the hazardous material. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands. |
| RESPIRATORY PROTECTION | Wear respiratory protection during operations where spraying or misting occurs. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |

| 9. PHYSICAL AND CHEMICAL PROPERTIES | | | |
|---------------------------------------|-----------------------|-------------------------------------|---------------|
| APPEARANCE | Brown-orangish liquid | ODOR | Pungent |
| SPECIFIC GRAVITY (H ₂ O=1) | 1.04 Kg/l at 68° F | GALLON WEIGHT | 8.7 lbs / gal |
| pH | 5-5.5 | ODOR THRESHOLD | Not Available |
| FREEZING POINT | Not Available | EVAPORATION RATE | Not Available |
| FLASHPOINT | Not Available | VAPOR PRESSURE | Not Available |
| AUTO-IGNITION TEMP | Not Available | VAPOR DENSITY (AIR = 1) | Not Available |
| BOILING POINT, 760 MM HG | 100°C (212°F) | SOLUBILITY | Not Available |
| MELTING POINT | Not Available | % VOLATILE | Not Available |
| FLAMMABILITY LIMITS | Not Available | OCTANOL/WATER PARTITION COEFFICIENT | Not Available |

Note: These physical data are typical values of material tested and not intended to be a guaranteed analysis of specification of any specific lot.

| 10. STABILITY AND REACTIVITY | |
|---|---|
| INCOMPATIBLE MATERIALS / STABILITY | Stability: Stable under recommended transport and storage conditions. Incompatibility: None Materials to Avoid: Not Available |
| HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS | No hazardous reactions known to occur under normal use conditions. No hazardous decomposition products are known to occur. |
| CONDITIONS TO AVOID | Unknown. See section 7 for storage information. |

| 11. TOXICOLOGICAL INFORMATION | |
|---|---|
| ACUTE TOXICITY VALUES | Acute Oral LD50 (Rat): No Data Available Acute Dermal LD50 (Rabbit): No Data Available Acute Inhalation LC50 (Rat): No Data Available |
| ROUTES OF EXPOSURE | Skin and eye contact, inhalation, ingestion. |
| SIGNS AND SYMPTOMS OF OVEREXPOSURE | Short term effects: No Data Available Long term effects: No Data Available |
| CHRONIC EFFECTS CARCINOGENICITY | Not considered a carcinogen by IARC, NTP, or OSHA. |
| SPECIFIC TARGET ORGAN TOXICITY | Reproductive/developmental toxicity: No Data Available |

| 12. ECOLOGICAL INFORMATION | | | |
|---|-------------------|----------------------------------|-------------------|
| ECOTOXICITY | No data available | MOBILITY IN SOIL | No data available |
| | | BIOACCUMULATIVE POTENTIAL | No data available |
| PERSTISTANCE & DEGRADABILITY | No data available | | |