13. DISPOSAL CONSIDERATIONS

WASTE RESIDUE/ CONTAMINATED PACKAGING DISPOSAL	Triple rinse container, add rinsate to spray tank. Do not rinse down drain. 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	No Data Required	**LABELS & PLACARDS REQUIRED**	No Data Required
PACKING GROUP	No Data Required		
UN NUMBER	**No Data Required**		
MARINE POLLUTANT	Not Available.		

15. REGULATORY INFORMATION

CALIFORNIA 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	Mixture Component Reportable Quantity None.
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, SARA Section 302, SARA section 304			
Pressure	No	313 Mixture Component	CAS#	313 RQ	302/304 EHS RQ
Reactivity:	No	None			
Immediate (Acute):	Yes				
Delayed (Chronic):	No				
Fire:	No				

INTERNATIONAL REGULATIONS	CANADA: WHMIS: Not available. DSL/NDSL: The substance is not on any list.

16. OTHER INFORMATION

ISSUE DATE December 11, 2015 Revised: 1/19/2016
SUPERCEDES All previous versions

BioGro

1. IDENTIFICATION

MANUFACTURER/ OR SUPPLIER'S NAME BioGro, Inc.	TELEPHONE NO./ AFTER HOURS EMERGENCY (509) 894-4110 / (800) 738-7457
MAILING ADDRESS 5232 Outlet Drive / Pasco WA 99301	MANUFACTURING ADDRESS 681 Glade Rd / Mabton WA 98935
PRODUCT NAME Root Builder P	WEBSITE www.BioGro.com
CHEMICAL FAMILY , SYNONYMS AND TRADE NAMES Nitrogen and Phosphate Mixture	RECOMMENDED USE OF THE CHEMICAL Agricultural Fertilizer

2. HAZARD(S) IDENTIFICATION

SIGNAL WORD	HAZARD STATEMENT	PRECAUTION STATEMENT
WARNING	H315 Causes skin irritation H320 Causes eye irritation	Wear protective gloves/protective clothing/eye protection. Wash skin thoroughly after handling.
SYMBOL(S)		

3. MIXTURE COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	BY WEIGHT	INGREDIENT HAZARD DATA
Proprietary solution containing plant nutrients derived from fermented grain and plant by-products, Ammonical Nitrogen, Urea, and Phosphoric Acid. GUARANTEED ANALYSIS: 5-15-0 Nitrogen (N) 5.0% 1.25% Ammoniacal Nitrogen 3.75% Urea Nitrogen Phosphate (P2O5) 15.0% Derived from Urea, Ammonia, Phosphoric Acid	Proprietary	100%	See Section 2.

4. FIRST-AID MEASURES

EYE CONTACT Immediately flush with water for 15 minutes at least. If easy to do remove contact lenses. Get medical attention if irritation persists.

SKIN CONTACT	Wash skin 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 doctor if you feel unwell.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	Use extinguishing media suitable for surrounding materials to extinguish fire. Use foam, dry chemical, carbon dioxide or water spray if suitable for surrounding materials.
HAZARDOUS PRODUCTS OF COMBUSTION	Non-flammable. Non-explosive. Hazardous products not known.
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 PRECAUTION	Observe personal protective equipment (PPE Section 8).
CONTAINMENT AND CLEANUP	Contain spill with dry earth, sand or suitable material. Collect spillage and place material in a suitable container for disposal. (See Sec. 13)
ENVIRONMENTAL PRECAUTIONS	None known.

7. HANDLING AND STORAGE

HANDLING	Wash thoroughly with soap and water after handling. Wash PPE after use with this product.
STORAGE	Store out of direct sunlight in a well ventilated area. Do not store below freezing. Store away from incompatible materials (see section 10). 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 chemical safety goggles or face shield 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	Dark brown/ tan liquid	ODOR	Slightly sweet Cereal
SPECIFIC GRAVITY	1.18 Kg/l at 68°F	GALLON WEIGHT	9.9 lbs/gal
pH	2.0-2.5	ODOR THRESHOLD	Not Available.
FREEZING POINT	Not Available.	EVAPORATION RATE	Not Available.
FLASHPOINT	Not Available.	VAPOR PRESSURE	Not Available.
AUTO-IGNITION POINT	Not Available.	VAPOR DENSITY (Air=1)	Not Available.
BOILING POINT	Not Available.	SOLUBILITY	Not Available.
MELTING POINT	Not Available.	% VOLATILE	Not Available.
FLAMMABILITY LIMITS	Not Available.	OCTANOL/WATER PARTITION COEFFICIEENT	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

INCOMAPTIBILE MATERIALS / STABILITY	Stability: Stable under recommended normal transport and storage conditions. Incompatible Materials: Unknown.
HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS	Hazardous Polymerization does not occur. No hazardous reactions known to occur under normal use conditions. No hazardous decomposition products known.
CONDITIONS TO AVOID	None known. See storage information (Sec 7).

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY VALUES	Acute Oral LD50 (Rat): Mixture: No data available. Acute Dermal LD50 (Rat): Mixture: No data available Acute Inhalation LC50 (Rat): Mixture: No data available	
ROUTES OF EXPOSURE	Ingestion: Not Available. Skin / Eye contact: Not Available. Inhalation: Not Available.	
SIGNS AND SYMPTOMS OF OVEREXPOSURE	Short term effects: Not Available.	Long term effects: Not Available.
CHRONIC EFFECTS CARCINOGENICITY	No components are considered a carcinogen by IARC, ACGIH, NTP, or OSHA.	
SPECIFIC TARGET ORGAN TOXICITY	No data available.	

12. ECOLOGICAL INFORMATION

ECOTOXICTY	Not expected to exhibit toxicity to fish or other aquatic organisms.	**MOBILITY IN SOIL**	Provides a nutrient source for soil microorganism growth.
		BIOACCUMULATIVE POTENTIAL	Not expected to bioaccumulate.
PERSTISTANCE & DEGRADABILITY	Mostly made up of natural constituents such as crude plant proteins, sugars, and organic acids and therefore is readily degraded by biological material.		