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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODES:	BPT-IP15006
PRODUCT NAME:	Spectrum 8-0-0
SYNONYMS:	plant nutrient blend (nitrogen, micronutrients, seaweed extract)

MANUFACTURER:BioPro Technologies, LLCADDRESS:4060 SE 45th Court, Ocala, FL 34480

EMERGENCY PHONE: (888) 545-6307 CHEMTREC PHONE: OTHER CALLS: (352) 620-2020 FAX PHONE: (352) 620-0312 PRODUCT USE: Turf management PREPARED BY: E.F. Wilson III

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health:	Environmental:	Physical:
Eye Effects: Category 2(a) Skin Irritation: Category 2 Respiratory Irritation: Category 3 Ingestion (oral acute): Category 4	Acute Aquatic Toxicity: Unknown	No Physical Hazards Present

GHS Pictogram:	ANSI/Old Pictogram:	
		Signal Word: Warning

Hazard Statements:	Precautionary Statements:
H302: Harmful if swallowed.	P101: If medical advice is needed, have product container or label at hand
	P102: Keep out of reach of children
H313: May be harmful in contact with skin	P103: Read label before use
	P261: Avoid breathing mist/spray
H315: Causes Skin Irritation	P262: Do not get in eyes, on skin, or on clothing
	P271: Use only outdoors or in a well ventilated area
H318+H319: Causes serious eye irritation	P280: Wear protective gloves/protective clothing/eye protection/face protection
and/or may cause eye damage	P281: Use personal protective equipment as required
	P353: Rinse skin with water/shower
H335: May cause respiratory irritation	P363: Wash contaminated clothing before reuse.
	If swallowed: Rinse mouth. Do NOT induce vomiting. Get immediate medical attention if you feel unwell. (P301+P314+P330+P331)
	If inhaled: Remove person to fresh air and keep comfortable for breathing. (P304+P340)
	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and able to do so. Continue rinsing eyes. Seek medical attention if eye irritation persists. (P305+P313+P337+P351+P338)

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SECTION 2 NOTES:

Physical Description (also see Section 9): Dark greenish brown

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS*:

Urea – CAS# 57-13-6 Magnesium Nitrate – CAS# 10377-60-3 Ferrous Sulfate – CAS# 7720-78-7 Manganese Sulfate – CAS# 10034-96-5

*Contains organic acid chelating agents

-Seaweed Extract (ASCOPHYLLUM NODOSUM) - CAS# 84775-78-0

*AS PER 29 CFR §1910.1200, THE SPECIFIC CHEMICAL IDENTITY AND/OR EXACT PERCENTAGE (CONCENTRATION) OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

IF INHALED: Immediately remove victim from contaminated atmosphere into fresh air. Get medical assistance.

IF ON SKIN (OR HAIR): Remove any contaminated clothing or shoes. Wash skin with plenty of gentle soap and water. Get immediate medical assistance. Launder cloths before reuse.

IF IN EYES: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get immediate medical assistance. Do not allow victim to rub or keep eyes closed.

IF SWALLOWED: DO NOT INDUCE VOMITING. Give 2 or 3 glasses of water to drink and get immediate medical attention.

SECTION 4 NOTES: Treat symptomatically and supportively. No specific antidote.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES: NON-FLAMMABLE

FLASH POINT: SAMPLE BEGINS TO BOIL BUT NO FLASH IS OBSERVED

AUTOIGNITION TEMPERATURE: NOT APPLICABLE, MIXTURE WILL NOT AUTOIGNITE

NFPA HAZARD CLASSIFICATION HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 OTHER: 0

EXTINGUISHING MEDIA: Water spray, dry chemical, carbon dioxide, or foam.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS: Fire fighters should wear full protective equipment and self-contained breathing apparatus. Prevent runoff from entering water systems. Keep non-essential personnel out of fire area.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gases. Keep containers cool with water spray.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, carbon, sulfur; hydrogen sulfide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. If spill is of major proportions soil may need to be evacuated.

CONTAINMENT METHODS AND CLEANUP: Stop the flow of material, if this is without risk.

Large Spills: Dike to prevent spill from entering water systems. If spill is of major proportions, soil may need to be excavated. Small Spills: Wear protective equipment. Prevent spill from entering water systems. Absorb spill on inert material such as clay, vermiculite, or kitty litter. Place absorbed material into labeled container for proper disposal. Dispose of in accordance with local, State, and Federal laws and regulations; see Section 13.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Do not ingest. Avoid breathing mist or vapor. Avoid contact with skin, eyes, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Store in a cool, dry, locked area out of reach of children and animals.

OTHER PRECAUTIONS: THIS PRODUCT IS FOR AGRICULTURAL AND HORTICULTURAL USE ONLY AND IS NOT INTENDED FOR OTHER APPLICATIONS. USE NORMAL SAFE HANDLING PROCEDURES AS WITH ALL CHEMICALS. SEE LABEL FOR APPLICATION INSTRUCTIONS AND DIRECTIONS FOR USE.

SECTION 7 NOTES: Store locked up and out of reach of children and animals. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use in open, outdoor areas only.

VENTILATION : Provide adequate ventilation.

RESPIRATORY PROTECTION: In confined areas, NIOSH/MSMA approved respirator.

EYE PROTECTION: Safety glasses/goggles/face shield recommended to prevent splash from concentrated material.

SKIN PROTECTION: Impervious gloves (ex. Nitrile 0.11mm thickness), clothing and boots suggested.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear suitable protective clothing. Wash contaminated clothing prior to reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

WORK HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

EXPOSURE GUIDELINES:

{Numbers represent mg/M3 unless otherwise indicated}.

	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
Ingredient	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Ferrous Sulfate	NA	NA	1	2	1	NA	NA
Elemental iron	NA	NA	1	NA	1	NA	NA
Elemental manganese		Ceiling=5	0.2	NA	1	NA	500

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Dark greenish brown

ODOR: Slight odor

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 1.8 @ 21.0C

WEIGHT: 10.78 lbs. per gal. (1.29 kg/L)

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BOILING POINT:

F: 212 **C**: 100

MELTING POINT/FREEZING POINT:

F: 32 **C**: 0

VAPOR PRESSURE (mmHg): Unknown

VAPOR DENSITY (AIR = 1): Unknown

DENSITY (g/cm3): 1.3

SPECIFIC GRAVITY (H2O = 1): 1.290

EVAPORATION RATE: Not determined.

BASIS (=1):

SOLUBILITY IN WATER: Soluble

PERCENT VOLATILE: NO VOLATILITY PRESENT

VOLATILE ORGANIC COMPOUNDS (VOC): NONE

MOLECULAR WEIGHT: NO DATA PRESENT VISCOSITY: Not determined

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID (STABILITY): Avoid extreme heat. Do not freeze.

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of nitrogen, carbon, and sulfur, hydrogen sulfide.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Temperatures above 120°F (49°C) and below 32°F (0°C).

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not determined; no data available.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Accidental spills of undiluted product may cause vegetation kills. Keep out of any body of water; may harm aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDOUS WASTE CODE: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

RCRA HAZARD CLASS: NOT APPLICABLE

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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION PROPER SHIPPING NAME: Spectrum 8-0-0 HAZARD CLASS: Not regulated ID NUMBER: PACKING GROUP: LABEL STATEMENTS:

OCEAN/WATER TRANSPORTATION PROPER SHIPPING NAME: Spectrum 8-0-0

AIR TRANSPORTATION PROPER SHIPPING NAME: Spectrum 8-0-0

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

EPA Regulations: Not regulated by EPA under FIFRA or FQPA.

OSHA Regulations: Refer to Sections 2 & 8.

State Regulations: Urea appears on the CA & MN RTK Chemical Lists. Check with specific state authorities since regulations vary within the states.

Other Regulations: Ferrous sulfate is a Section 304 Chemical; (CERCLA RQ= for each=1,000 lbs.).

SARA Title III; Sections 311/312: Sudden Release of Pressure (N), Reactivity (N), Fire (N), Immediate (Acute) Health (Y), Delayed (Chronic) Health (N).

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

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