

SAFETY DATA SHEET

FILE NO.: BPTN120026-2017Q1

NAME OF PRODUCT: **Nutralyze™ 12-0-0-26S**

Preparation Date: 12/13/2016

Revision: 2/16/2017

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODES: BPT-N120026
PRODUCT NAME: Nutralyze 12-0-0-26S
SYNONYMS: plant nutrient blend, nitrogen fertilizer with sulfur

MANUFACTURER: BioPro Technologies, LLC
ADDRESS: 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: Eye Effects: Category 2(a) Skin Irritation: Category 2 Acute Toxicity, Oral: Category 4	Environmental: Acute Aquatic Toxicity: Unknown	Physical: No Physical Hazards Present
---	--	---

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

Hazard Statements: H302 - Harmful if swallowed. H315 – Causes Skin Irritation H319 - Causes serious eye irritation. H335 - May cause respiratory irritation	Precautionary Statements: P101: If medical advice is needed, have product container or label at hand P102: Keep out of reach of children P103: Read label before use P261: Avoid breathing mist/spray P262: Do not get in eyes, on skin, or on clothing P271: Use only outdoors or in a well ventilated area P280: Wear protective gloves/protective clothing/eye protection/face protection P281: Use personal protective equipment as required P353: Rinse skin with water/shower P363: Wash contaminated clothing before reuse. If swallowed: Call a poison center and/or doctor if you feel unwell. Rinse Mouth. (P301+P312+P330) 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)
--	---

SAFETY DATA SHEET

FILE NO.: BPTN120026-2017Q1

NAME OF PRODUCT: **Nutralyze™ 12-0-0-26S**

Preparation Date: 12/13/2016

Revision: 2/16/2017

SECTION 2 NOTES:

Physical Description (also see Section 9): Pale yellow to green (sometimes tan) liquid with slight ammonia odor.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

Thiosulfuric acid diammonium salt – 60% - CAS# 7783-187-8

*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: Remove victim from contaminated atmosphere.

IF ON SKIN (OR HAIR): Remove any contaminated clothing. Wash affected area with mild soap and water. Get medical attention if irritation persists or develops. Launder contaminated clothing before reuse.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if present and easy to do. Hold eyelids apart during irrigation to ensure thorough flushing of the entire area of the eye and lids with water. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Call a poison center and/or Doctor if you feel unwell. Small amounts of water may be administered. Do not induce vomiting unless directed to do so by medical personnel.

SECTION 4 NOTES: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). No specific antidote; treat symptomatically.

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: As appropriate for combustibles in area.

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 to dryness will cause the release of ammonia, hydrogen sulfide and oxides of sulfur. Ammonia (16-25%) and hydrogen sulfide (4-46%) may form flammable mixtures with air..

HAZARDOUS DECOMPOSITION PRODUCTS: See "Explosion Hazards" above.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SAFETY DATA SHEET

FILE NO.: BPTN120026-2017Q1

NAME OF PRODUCT: **Nutralyze™ 12-0-0-26S**

Preparation Date: 12/13/2016

Revision: 2/16/2017

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.

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. Recover as much solution as possible. Flush residue to soil with large quantity, if permitted by applicable disposal regulations.

Small Spills: Absorb spill with sand, earth, sweeping compound or other inert absorbant. Dispose on in accordance with all government regulations.

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. 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: Occupational limits not established for this product. ACGIH limits for ammonia are TWA 25 ppm and STEL 35 ppm; OSHA limit for ammonia is 35ppm STEL.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Pale yellow to green solution

ODOR: Slight ammonia odor

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 6.5-8.5@68°F

WEIGHT: 11.0-11.2 lbs. per gal. (1.32-1.35 kg/L)

BOILING POINT:

F: 210-220F

C: 98.9-104.4C

SAFETY DATA SHEET

FILE NO.: BPTN120026-2017Q1

NAME OF PRODUCT: **Nutralyze™ 12-0-0-26S**

Preparation Date: 12/13/2016

Revision: 2/16/2017

MELTING POINT/FREEZING POINT:

F: 30-60F

C: -1.1C-15.6C

VAPOR PRESSURE (mmHg): 18mm Hq @ 70F (21.1C)

VAPOR DENSITY (AIR = 1): Unknown

DENSITY (g/cm3): 1.3

SPECIFIC GRAVITY (H2O = 1): 1.32-1.35

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: Stable under normal conditions of use and storage. DO NOT FREEZE.

CONDITIONS TO AVOID (STABILITY): Extreme heat. Freezing temperatures.

INCOMPATIBILITY (MATERIAL TO AVOID): Contact with strong oxidizers such as chlorates, nitrate and nitrites may cause explosions or the release of ammonia, hydrogen sulfide or sulfur oxides. Contact with strong acids will cause the release of sulfur dioxide. Contact with strong alkalis will cause the evolution of ammonia. Avoid storage near oxidizers, strong acids or strong alkalis. Solution is not compatible with copper, zinc, tin or their alloys. These materials of construction should not be used in handling systems for the product.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Heating the product will evolve ammonia. Heating to dryness will cause the evolution of ammonia, hydrogen sulfide and sulfur dioxide. Ammonia (16-25%) and hydrogen sulfide (4-46%) may form flammable mixtures with air.

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.

SAFETY DATA SHEET

FILE NO.: BPTN120026-2017Q1

NAME OF PRODUCT: **Nutralyze™ 12-0-0-26S**

Preparation Date: 12/13/2016

Revision: 2/16/2017

RCRA HAZARD CLASS: NOT APPLICABLE

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Nutralyze 12-0-0-26s

HAZARD CLASS: Not regulated

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

OCEAN/WATER TRANSPORTATION

PROPER SHIPPING NAME: Nutralyze 12-0-0-26s

AIR TRANSPORTATION

PROPER SHIPPING NAME: Nutralyze 12-0-0-26s

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: Check with specific state authorities since regulations vary within the states.

Other Regulations: Ammonia is subject to SARA Title III, Section 313, Toxic Release Reporting.

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:

DISCLAIMER: THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESS OR IMPLIED. THIS INFORMATION IS FURNISHED AS THAT OF BEING TO THE BEST KNOWLEDGE OF BIOPRO TECHNOLOGIES, LLC AND/OR ECOLOGEL SOLUTIONS, LLC. THE DATA ON THIS SHEET RELATES ONLY TO THE SPECIFIC MATERIALS DESIGNATED HEREIN. ECOLOGEL SOLUTIONS, LLC ASSUMES NO LEGAL RESPONSIBILITY FOR THE USE OR RELIANCE UPON THIS DATA.