

SAFETY DATA SHEET

NAME OF PRODUCT: **Na-X**

FILE NO.: NAX-2015Q3

Preparation Date: 01/21/2014

Revision: 09/10/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODES: BPT-NAX
PRODUCT NAME: Na-X
SYNONYMS: Soil Salt Flush 5-0-0-12Ca

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



EMERGENCY PHONE: (352)390-6502
CHEMTREC PHONE: N/A
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: This product may be considered hazardous according to 29 CFR 1910(Subpart Z), amended to conform to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (OSHA / GHS); SOR/88-66, the Canadian Controlled Products Regulations (CPR); and/or NOM-002-SCT-2003 (Mexico).

Health: Acute Toxicity: None Known (NK) Skin Irritation: May be within Category 3 - mild Skin Corrosion: NK Eye Effects: Category 2(b) - mild Skin Sensitization – skin allergies may be aggravated Mutagenicity/Carcinogenicity: NK Reproductive/Dev.: NK	Environmental: Acute Aquatic Toxicity: NK Chronic Aquatic Toxicity: NK	Physical: No Physical Hazards Present
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GHS Pictogram: 	ANSI/Old Pictogram: 	Signal Word: Warning
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Hazard Statements: H316: Causes mild skin irritation H320: Causes eye irritation H335: May cause respiratory irritation H303: May be harmful if swallowed	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 P262: Do not get in eyes, on skin, or on clothing P280: Wear protective gloves/protective clothing/eye protection/face protection P281: Use personal protective equipment as required P353: Rinse skin with water/shower
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SECTION 2 NOTES:

CLEAR TO SLIGHTLY YELLOW LIQUID; ODORLESS.

SKIN ABSORPTION IS THE PRIMARY ROUTE OF ENTRY. PROLONGED CONTACT MAY PRODUCE IRRITATION AND ITCHING.

PERSONS WITH EXISTING SKIN LESIONS SHOULD EXERCISE CAUTION WHEN USING OR HANDLING THIS PRODUCT. THESE INDIVIDUALS SHOULD ALSO AVOID ALL CONTACT WITH POSSIBLE SPRAY MIST.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

UREA NITROGEN – 5.00%

CALCIUM (DERIVED FROM CALCIUM CHLORIDE) – 12.00%

SARA 313 REPORTABLE - ***NO TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND 40 CFR 372 ARE PRESENT.***

SECTION 2 NOTES:

SECTION 4: FIRST AID MEASURES

IF INHALED: Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

IF ON SKIN (OR HAIR): Remove any contaminated clothing and shoes immediately. Wash affected area with mild soap and flush with large amounts of water until no evidence of chemical remains (at least 15-20 minutes). In case of burns, cover area with sterile, dry dressing. Bandage securely, but not too tightly. Get medical attention immediately. Launder contaminated clothing before reuse.

IF IN EYES: Flush eyes with large amounts of water for at least 15 minutes, occasionally lifting upper and lower eyelids until no evidence of chemical remains (at least 15-20) minutes. Get medical attention immediately.

IF SWALLOWED: Treat symptomatically and supportively. Get medical attention immediately. Do not induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration.

Note to Physicians: No specific antidote. Treat symptomatically and supportively. May cause corneal injury. **Special Precautions/Procedures:** None known.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: NOT APPLICABLE, MIXTURE CONTAINS NO COMBUSTIBLE GASSES (% BY VOLUME) **LOWER:** NOT APPLICABLE, MIXTURE CONTAINS TO COMBUSTIBLE GASSES

FLASH POINT:

F: SAMPLE BEGINS TO BOIL BUT NO FLASH IS OBSERVED

C: SAMPLE BEGINS TO BOIL BUT NO FLASH IS OBSERVED

METHOD USED:

AUTOIGNITION TEMPERATURE: NOT APPLICABLE, MIXTURE WILL NOT AUTOIGNITE

NFPA HAZARD CLASSIFICATION

HEALTH: NONE

OTHER: NONE

FLAMMABILITY: NONE

REACTIVITY: NONE

HMIS HAZARD CLASSIFICATION

HEALTH: NONE

PROTECTION: NONE

FLAMMABILITY: NONE

REACTIVITY: NONE

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG, OTHER

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SPECIAL FIRE FIGHTING PROCEDURES: 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: Containers exposed to fire may rupture violently. Keep containers cool with water spray. Move containers from fire area if it can be done without risk. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Do not use water directly on material. Avoid breathing corrosive vapors; keep upwind. Dike area to prevent runoff and contamination of water sources.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include very small amounts of toxic and corrosive fumes of chlorine, hydrogen chloride, ammonia or nitrogen oxides. Product may react with some metals (aluminum, zinc, tin, etc.) to release some flammable hydrogen gas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Occupational Spill: Avoid contact with spilled material. Stop leak if it can be done without risk. For small spills, take up with sand or other absorbent material and place into labeled container(s) for disposal. Move containers from spill area. For larger spills, dike far ahead of spill for later disposal. Deny entry of nonessential personnel and isolate hazard area.

Soil Spill: Dig holding area such as lagoon, pond or pit for containment. Dike flow of spilled material using soil or sandbags or foamed barriers such as polyurethane or concrete. Use cement powder or fly ash to absorb liquid mass.

SECTION 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS: Observe all federal, state and local regulations when storing this product. Avoid contact with skin, eyes and clothing. Do not take internally. Wash after handling. Do not contaminate water by disposal of equipment wash waters.

STORAGE REQUIREMENTS: Store in a tightly closed container. Store in a cool, dry area preferably locked and out of reach of children and animals. Store away from incompatible substances.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: NONE

VENTILATION : RECOMMEND LOCAL EXHAUST WELL VENTILATED.

RESPIRATORY PROTECTION: THE RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND IN THE WORKPLACE AND SPECIFIC TO THE JOB ASSIGNMENT. DO NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR.

EYE PROTECTION: SPLASH PROOF GOOGLES ARE RECOMMENDED WHILE POURING AND HANDLING TO PREVENT EYE CONTACT FROM SPLASH.

SKIN PROTECTION: RUBBER GLOVES ARE RECOMMENDED FOR NORMAL CLEANLINESS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: PLASTIC OR RUBBERIZED CLOTHING AND PROTECTIVE ANTI-SKID BOOTS SHOULD BE WORN FOR GOOD SAFE HYGENIC PRACTICES.

WORK HYGIENIC PRACTICES: WASH HANDS BEFORE EATING, SMOKING, OR USING RESTROOM.

EXPOSURE GUIDELINES: THIS PRODUCT DOES NOT EMIT ANY FORM OF ENERGY, RADIANT OR OTHERWISE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: CLEAR TO SLIGHTLY YELLOW LIQUID

ODOR: VERY FAINT TO ODORLESS

PHYSICAL STATE: LIQUID

pH AS SUPPLIED: 6.0-8.0

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BOILING POINT: 234°F

MELTING POINT:

FREEZING POINT:

F:

C:

VAPOR PRESSURE (mmHg): Unknown

VAPOR DENSITY (AIR = 1): GREATER THAN 1

SPECIFIC GRAVITY (H₂O = 1): 1.37 @ 25°C

EVAPORATION RATE:

BASIS (=1):

SOLUBILITY IN WATER: INFINITE

PERCENT SOLIDS BY WEIGHT: 0%

PERCENT VOLATILE: NO VOLATILITY PRESENT

VOLATILE ORGANIC COMPOUNDS (VOC): NONE

MOLECULAR WEIGHT: NO DATA PRESENT

VISCOSITY: NO DATA PRESENT

SECTION 9 NOTES: DECOMPOSITION MAY OCCUR AT HIGH TEMPERATURES (>225°F).

SECTION 10: STABILITY AND REACTIVITY

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

CONDITIONS TO AVOID (STABILITY): Extreme heat. Do not freeze. Product is corrosive to mild steel & aluminum.

INCOMPATIBILITY (MATERIAL TO AVOID): DO NOT MIX WITH SULPHATES OR PHOSPHATES. REACTIVITY TO OTHER COMPOUNDS UNKNOWN.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal decomposition products may include very small amounts of toxic and corrosive fumes of chlorine, hydrogen chloride, ammonia, or nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: SPECIFIC DATA UNKNOWN

LOCAL EFFECTS: Liquid product is an eye, skin and mucous membrane irritant.

ACUTE TOXICITY LEVEL: Ingestion and dermal absorption may be moderately toxic; unknown.

TARGET EFFECTS: No data available.

AT INCREASED RISK TO EXPOSURE: Persons with skin, eye, respiratory or kidney disorders.

INHALATION: *Acute exposure:* Inhalation of mist may cause irritation with coughing and shortness of breath.

SKIN CONTACT: *Acute exposure:* Single, short exposure not likely to cause significant skin irritation. The degree of irritation depends on the concentration and duration of contact. *Chronic exposure:* Effects depend on concentration and duration of exposure. Repeated or prolonged contact with corrosive substances may result in dermatitis or effects similar to those in acute exposure.

EYE CONTACT: *Acute exposure:* Direct contact with mist or solution may cause irritation with redness and pain and superficial injury. Tearing and eye discharge may also occur. *Chronic exposure:* Repeated or prolonged exposure may result in conjunctivitis.

INGESTION: *Acute exposure:* May cause abdominal spasms and nausea. Overdoses may cause gastrointestinal tract or cardiovascular irregularities.

SECTION 12: ECOLOGICAL INFORMATION

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

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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Observe all local, state or federal regulations for acceptable disposal procedures and locations. Disposal in waterways or sewers may be prohibited.

RCRA HAZARD CLASS: NOT APPLICABLE

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Na-X

HAZARD CLASS: NON-HAZARDOUS, NOT A DOT CONTROLLED MATERIAL

ID NUMBER: NOT APPLICABLE

PACKING GROUP:

LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME: Na-X

HAZARD CLASS: NON-HAZARDOUS, NOT A DOT CONTROLLED MATERIAL

ID NUMBER: NOT APPLICABLE

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME: Na-X

HAZARD CLASS: NON-HAZARDOUS, NOT A DOT CONTROLLED MATERIAL

ID NUMBER: NOT APPLICABLE

PACKING GROUP:

LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): OBSERVE REGULATIONS

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): NOT APPLICABLE

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): NOT APPLICABLE

311/312 HAZARD CATEGORIES: NOT APPLICABLE

313 REPORTABLE INGREDIENTS: NOT APPLICABLE

STATE REGULATIONS: Urea appears on the CA & MN RTK Chemical Lists; Calcium Chloride appears on the CA RTK Chemical List. Check with specific state authorities since regulations vary within the states.

INTERNATIONAL REGULATIONS: CONSULT LAWS OF APPLICABLE JURISDICTION

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

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OTHER INFORMATION:

PREPARATION INFORMATION:

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