



520

LIQUID MINERAL NUTRIENTS

**SAFETY DATA SHEET
BIO 520**

JUNE 2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: BIO 520 LIQUID MINERAL NUTRIENTS & POWDER. A compound of water-soluble powdered minerals and perlite, commonly used in plant cultivation.

HS CODE: 2517.49

APPLICATION: To stimulate healthy plant growth. Soluble into mineralized water to form concentrate. Then diluted 1,000 to 1 into plant irrigation water.

SYNONYMS: None

PRODUCTION: BIO 520 LLC 112 N. Curry Avenue, Carson City, NV 89703-4934

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Prepared by PB 6/20/2019

SECTION 2: HAZARDS IDENTIFICATION

HAZARDOUS PROPERTY: Not Hazardous

POTENTIAL HEALTH EFFECTS: Harmless if ingested, inhaled or in skin and eye contact.

ENVIRONMENTAL EFFECTS: Safe. No impact on environment, animals, birds, insects or aquatic life.

PHYSICAL AND CHEMICAL HAZARD: No hazard. Equivalent to U.S. FDA GRAS categorization (Generally Regarded as Safe)

CHEMICAL MATERIAL CATEGORIES: Not Applicable. No chemicals in product.

SECTION 3: COMPOSITION

Soluble mixture of natural minerals.

SECTION 4: FIRST AID MEASURES

When in eye contact: Harmless. Wash eyes with clean water.
INGESTION: Harmless. **INHALATION:** Harmless.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: No special instruction necessary. The product is incombustible.
SPECIAL FIRE FIGHTING PROCEDURES: No special fire-fighting instructions. The product does not burn. Releases no harmful gases.

SECTION 6: ACCIDENTAL RELEASE MEASURES

HUMAN CONSIDERATION: None.
ENVIRONMENTAL CONSIDERATION: None. Can be harmlessly released into river, sea, lake, municipal or natural water drainage if not combined with other products such as other chemicals, Oils. Product itself is used in hatcheries to help fish with algae and growth on fish species.
REMOVAL MEASURES: Product is designed for dilution at **1,000 to 1** in water. If accidentally released in undiluted form simply wash away with water.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep Containers Closed after opening
Handling: No special handling or safety requirements are applicable.
Storage: Room temperature away from UV light.
Shelf Life: 3 years in dry form in sealed aluminum foil packages containing a standard silica desiccant..

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE MEASUREMENT: Not applicable
DENSITY CONTROL: Not applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

FORM: **Liquid and Power Form**
APPEARANCE: Gray white powder. Mixes to a harmless clear liquid when added to water.
ODOR: Odorless
pH: N/A
SOLUBILITY IN WATER: 100%
PHYSICAL STATE: Powder. Without taste.
BOILING POINT: None
FLASH POINT: No flash
FREEZING POINT: None. Zero Degrees C when mixed with water
VISCOSITY: N/A

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Inert. When mixed with water the resultant liquid has no reaction to acid or alkali. Dilutable. Stable with detergents and solvents. Neither factors are relevant to the product application, which is as a growth promoter when added to irrigation water for the organic growth of plants.
REACTIVITY: None
CONDITIONS TO AVOID (STABILITY):
None **INCOMPATIBILITY (MATERIAL TO AVOID):** None
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:
Acute toxicity: Rat Oral Test: Not applicable. Harmless, non-toxic

SECTION 12: ECOLOGICAL INFORMATION

Product provides plant nutrition, improves plant yield and eliminates chemical accumulation in food crops.
BIODEGRADIATION: None
FISH TOXICITY: None
DAPHNIA TOXICITY: None
ALGAE TOXICITY: None
BACTERIA TOXICITY: None
CHEMICAL CONTENT: None. Product is composed of harmless natural minerals.

SECTION 13: DISPOSAL CONSIDERATIONS

No special considerations. Dispose of in a manner consistent with national and local regulations.

SECTION 14: TRANSPORT INFORMATION

INTERNATIONAL REGULATION: Not applicable

UNITED NATIONS CATEGORIES: Not applicable

UNITED NATIONS NUMBERS: Not applicable

TRANSPORTATION SAFETY PRECAUTIONS: HS Code. 2517.49. No special considerations, except for liquid nature of the product. Follow SECTION 7

HANDLING CONSIDERATION: Ensure no leakage from the containers.

PACKAGING: Powder product is hydrophilic. Packaged in sealed, water-resistant aluminum foil packages containing standard silica gel desiccant. Packaged in standard 5kg, 10kg and 20kg sizes placed within cardboard cartons. Palletize and strap the cartons so they do not fall, or break. Make sure the cargo is fastened securely and firmly.

WATER TRANSPORTATION / AIR TRANSPORTATION: Mixed loading is allowed because the material is chemically inert, non- hazardous and non-flammable.

SECTION 15: REGULATORY INFORMATION

Not applicable. Considered GRAS under U.S. FDA categorization (Generally Regarded as Safe)

SECTION 16: OTHER INFORMATION

Disclaimer: The SDS information contained herein is created based on the latest information and data available to the company. New information may change the contents of this SDS. Also, considerations described in this SDS assume usual usage of the material. If Users try to use this material for non-usual purposes, Users should use this material with appropriate safety measurements for those special purposes. Although we make every effort to check the statements in this SDS, no guarantees are made concerning any statement in this SDS.