



BT-5100 BAC (AFCO 18041)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 05/21/2026

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: BT-5100 BAC

Product Code: AFCO 18041

Intended Use of the Product:

Use of the Substance/Mixture: Bioaugmentation supplement for wastewater treatment applications. For professional use only.

Name, Address, and Telephone of the Responsible Party

Company

AFCO

800 Development Avenue

Chambersburg, PA 17201

T: 800-345-1329

www.afcocare.com

Emergency Telephone Number

Emergency Number : 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Acute Tox. (Oral) 4 H302

Acute Tox. (Dermal) 5 H313

Eye Irrit. 2B H320

Acute Tox. (Inhalation) 5 H333

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)

:



GHS07

Signal Word (GHS-US)

: Danger.

Hazard Statements (GHS-US)

- : H302 - Harmful if swallowed
- H313 - May be harmful in contact with skin
- H320 - Causes eye irritation
- H333 - May be harmful if inhaled

Precautionary Statements (GHS-US)

- : P280 - Wear protective glove, protective clothing, eye protection, face protection.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: No additional hazards.

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Unknown Acute Toxicity (GHS-US): Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances: Not available, product is a mixture.

Mixture:

Name	Product identifier	% (w/w)
Concentrated class 1 non-pathogenic bacteria cultures		0.5 – 1.5
Proprietary micronutrients and buffering agents		40 – 60
Bran Carrier and growth media		40 – 60

Exact percentage composition of substances and/or ingredients may be withheld as a trade secret, in accordance with [29 CFR § 1910.1200 App E].

Full text of H-phrases: see section 16.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove victim to open air and ventilate suspected area. Keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical attention. If not breathing, give artificial respiration.

Skin Contact: Remove contaminated clothing. Wash off with plenty of soap and water. Do not allow material to contact open wounds. Wash contaminated clothing before reuse. If irritation develops or persists, seek medical attention.

Eye Contact: Immediately flush with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops or persists, seek medical attention.

Ingestion: Remove material from mouth and rinse with water. If victim is conscious and alert, give water or milk to dilute. Do not induce vomiting, unless directed by medical personnel. If gastric distress develops, seek medical attention .

Most Important Symptoms and Effects Both Acute and Delayed

Inhalation: May cause mild respiratory irritation; symptoms may include dizziness or nausea.

Skin Contact: May cause mild irritation with prolonged or repeated exposure.

Eye Contact: Causes eye irritation, including redness and discomfort.

Ingestion: May cause gastric distress, including nausea or discomfort.

Chronic Symptoms: Not available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water, water spray, foam, dry chemical, carbon dioxide (CO₂), or alcohol-resistant foam.

Unsuitable Extinguishing Media: None known.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable.

Explosion Hazard: Not considered combustible.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Wear full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides.

Other information: None available.

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Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use appropriate personal protection equipment (PPE). No significant hazard is expected from spills.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: None known.

Environmental Precautions

None known.

Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect material for reuse where possible.

Methods for Cleaning Up: Clean up spills promptly. Avoid generating dust. Sweep or vacuum spilled material and place in suitable containers for disposal or reuse. Small spills may be flushed to the sewer as the product is biodegradable. For large spills, contain and collect for reuse.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: No additional hazards identified.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands and other exposed areas thoroughly after handling. Do not ingest. Use appropriate personal protective equipment (see Section 8).

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a cool place. Store away from incompatible materials.

Incompatible Materials: Strong acids and alkali compounds may inactivate cultures.

Special Rules on Packaging: Keep container tightly closed when not in use.

Specific End Use(s): Bioaugmentation supplement for wastewater treatment applications. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation. Use local exhaust ventilation if dust is generated.

Personal Protective Equipment: Protective goggles. Gloves. Use appropriate personal protective equipment as needed to minimize exposure.



Materials for Protective Clothing: Chemically resistant materials.

Hand Protection: PVC or other plastic material gloves.

Eye Protection: Safety goggles.

Skin and Body Protection: No specific protection required under normal use conditions.

Respiratory Protection: Dust mask recommended for limited exposure. For prolonged exposure, use an air-purifying respirator or NIOSH/MSHA-approved respirator.

Other Information: When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practices. Wash hands thoroughly after handling.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Straw-colored, granular
Odor	: Musty
Odor Threshold	: Not available
pH (0.5%)	: 6.0 – 9.0
Relative Evaporation Rate (butylacetate=1)	: Not determined
Melting Point	: Not determined
Freezing Point	: Not determined
Boiling Point	: Not determined
Flash Point	: Not determined
Auto-ignition Temperature	: Not determined
Decomposition Temperature	: Not determined
Flammability (solid, gas)	: Not determined
Lower Flammable Limit	: Not determined
Upper Flammable Limit	: Not determined
Vapor Pressure	: Not determined
Relative Vapor Density at 21°C	: Not determined
Relative Density	: 0.4 – 0.5 g/cm ³
Solubility	: Disperses in water
Partition coefficient: n-octanol/water	: Not determined
Viscosity	: Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Reacts with sodium or calcium hypochlorite to form explosive nitrogen trichloride.

Chemical Stability: Stable under recommended conditions of use and storage.

Possibility of Hazardous Reactions: Hazardous reactions may occur with incompatible materials.

Conditions to Avoid: Heat, sparks, flames, static electricity, and dust generation.

Incompatible Materials: Strong acids or alkali compounds may inactivate cultures. Incompatible with aluminum powder, fluorine, molten lithium, and copper-containing alloys (e.g., brass, bronze, galvanized metals).

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: No data available.

LD50 and LC50 Data: No data available.

Skin Corrosion/Irritation: Prolonged and/or repeated exposure may cause skin irritation.

Serious Eye Damage/Irritation: May cause eye irritation.

Respiratory or Skin Sensitization: No data available.

Germ Cell Mutagenicity: No data available.

Teratogenicity: No data available.

Carcinogenicity: No data available.

Specific Target Organ Toxicity (Repeated Exposure): Prolonged and/or repeated exposure to skin and/or eyes may produce irritation.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity (Single Exposure): No data available.

Aspiration Hazard: No data available.

Symptoms/Injuries After Inhalation: May cause respiratory irritation, dizziness, or nausea.

Symptoms/Injuries After Skin Contact: May cause irritation with prolonged or repeated exposure.

Symptoms/Injuries After Eye Contact: May cause irritation.

Symptoms/Injuries After Ingestion: May cause gastric distress, including nausea or discomfort.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data: No data available.

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology – General: No data available.

Aquatic Toxicity: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects

Other Information: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, state, and federal regulations.

Additional Information: Emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT : Not regulated for transport.

14.2 In Accordance with IMDG : Not regulated for transport.

14.3 In Accordance with IATA : Not regulated for transport.

14.4 In Accordance with TDG : Not regulated for transport.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

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SARA Section 311/312 Hazard Classes

Not classified.

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All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

US State Regulations

California Proposition 65: This product does not contain substances known to the State of California to cause cancer, birth defects, or other reproductive harm.

Canadian Regulations

No additional regulatory information available.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by those regulations.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 05/21/2026

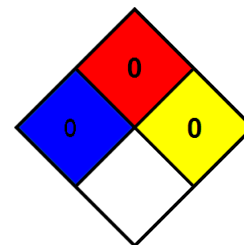
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases : None required.

NFPA Health Hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA Fire Hazard : 0 - Materials that will not burn.

NFPA Reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 0 Minimal Hazard - No significant risk to health.

Flammability : 0 - Minimal Hazard.

Physical : 0 - Minimal Hazard.

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Party Responsible for the Preparation of This Document

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS SDS 2015 (U.S., Can., Mex.)