



BT 5100 (AFCO 18035)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 09/12/2025

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: BT 5100

Product Code: AFCO 18035

Intended Use of the Product

Use of the Substance/Mixture: Wastewater treatment. For professional use only.

Product Dilution Information:

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

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

H333 - May be harmful if inhaled

Precautionary Statements (GHS-US)

: P234 - Keep only in original container.

P280 - Wear protective glove, protective clothing, eye protection, face protection.

P301+P330+P310 - IF INGESTED, give large quantities of water to dilute. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

P362 - Take off contaminated clothing and wash before reuse.

P370+P378 - In case of fire: Use appropriate media for extinction.

P391 - Collect spillage.

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P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards: No additional hazards.

Other Hazards Not Contributing to the Classification: Contact with eyes may produce irritation. May produce gastric distress upon ingestion.

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	Proprietary	2-6
Proprietary micronutrients and buffering agents	Proprietary	2-6
Bran carrier and growth media	Proprietary	80-95

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: If inhaled, remove from area to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Skin Contact: In case of contact, remove contaminated clothing and shoes. Wash contact areas thoroughly with soap and water. Do not allow material to contact open wounds. If such contact occurs, wash with soap and water and apply a superficial disinfectant. Launder contaminated clothing before reuse. If irritation develops and persists, seek medical attention.

Eye Contact: In case of contact, do not rub eyes. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation develops and persists, seek medical attention.

Ingestion: If ingested, 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

Contact with eyes may produce irritation. May produce gastric distress upon ingestion.

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 spray, carbon dioxide, alcohol foam, dry chemical.

Unsuitable Extinguishing Media: None known.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: This material is not considered flammable or combustible.

Explosion Hazard: This material is not considered flammable or combustible.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

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 (NO_x). Decomposition can release large amounts of carbon dioxide gas.

Other information: Product is biodegradable.

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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: Do not ingest. Harmful if swallowed.

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

Small Spills: Flush material to the sewer. Product is biodegradable.

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: Wear appropriate personal protection equipment (see section 8). Do not ingest.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, incompatible materials.

Incompatible Materials: Strong acids or alkali compounds may inactivate cultures. Incompatible with aluminum powder, fluorine, and molten lithium. Avoid oxides of carbon and nitrogen.

Specific End Use(s): Bioaugmentation supplement. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

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

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Protective goggles/glasses. Gloves.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: None required.

Respiratory Protection: A respirator is not needed as the product is contained in water soluble bags.

Other Information: When using, do not eat, drink or smoke.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Powder.
Appearance	: Straw.
Odor	: Musty.
Odor Threshold	: Not available.
pH	: 6.0 – 9.0
Relative Evaporation Rate (butylacetate=1)	: Not available.
Melting Point	: Not available.
Freezing Point	: Not available.
Boiling Point	: Not available.
Flash Point	: Not available.
Auto-ignition Temperature	: Not available.
Decomposition Temperature	: Not available.
Flammability (solid, gas)	: Not flammable.
Lower Flammable Limit	: Not flammable.
Upper Flammable Limit	: Not flammable.
Vapor Pressure	: Not available.
Relative Vapor Density at 20°C	: Not available.
Specific Gravity	: 0.35 - 0.6
Solubility	: Soluble in water.
Partition coefficient: n-octanol/water	: Not available.
Viscosity	: Not available.
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

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

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Extremely high or low temperatures. Incompatible materials.

Incompatible Materials: Strong acids or alkali compounds may inactivate cultures. Incompatible with aluminum powder, fluorine, and molten lithium. Avoid oxides of carbon and nitrogen.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Nitrogen oxides (NO_x). Decomposition can release large amounts of carbon dioxide gas.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: No data available.

Routes of Exposure: Oral, dermal and inhalation.

LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Not available.

Serious Eye Damage/Irritation: Contact with eyes may produce irritation.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Teratogenicity: Not available.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: None under normal and intended conditions of use.

Symptoms/Injuries After Skin Contact: Prolonged and/or repeated exposure to skin and/or eyes may produce irritation.

Symptoms/Injuries After Eye Contact: Prolonged and/or repeated exposure to skin and/or eyes may produce irritation.

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Symptoms/Injuries After Ingestion: May produce gastric distress upon ingestion.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data: Not available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity No data available.

Persistence and Degradability

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Persistence and Degradability	No data available.

Bioaccumulative Potential

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Bioaccumulative Potential	No data available.

Mobility in Soil Not available.

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Hazardous Waste Number: Not available.

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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All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.	
Sodium sesquicarbonate (533-96-0-2)	
SARA Section 311/312 Hazard Classes	Immediate (Acute) health hazard. Delayed (Chronic) health hazards.

US State Regulations

U.S. - California - Proposition 65	<i>No components of these products are listed under State of California Proposition 65 to cause cancer and birth defects or other reproductive harm.</i>
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Canadian Regulations

All components are listed on the Canadian DSL (Domestic Substances List) inventory or the NDSL or are exempt from listing.	
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.	

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

Revision date : 09/12/2025

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:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4.
Acute Tox. 5 (Dermal)	Acute toxicity (Dermal) Category 5.
Acute Tox. 5 (Inhalation)	Acute toxicity (Inhalation) Category 5.

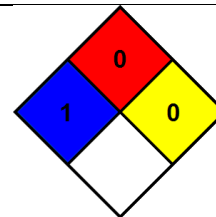
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H302	Harmful if swallowed.
H313	May be harmful in contact with skin.
H333	May be harmful if inhaled.

NFPA Health Hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
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 : 1 Slight Hazard - Irritation or minor reversible injury possible.
Flammability : 0 - Minimal Hazard.
Physical : 0 - Minimal Hazard.

Party Responsible for the Preparation of This Document

AFCO
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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.)