BACTALLION
REVITALISING SOIL AND WATER

SAFETY DATA SHEET

EFFLUENT MAX POWDER

Biological powder formulation

Document control	Details
Product code	BT_EMP
Version / revision	01.00 / 01.00
Date of issue	23 October 2026
Supplier	Bactallion (Pty) Ltd
Emergency number	+27 (0)82 903 3658

IMPORTANT: Technical and regulatory review required before external issue.

SECTION 1: IDENTIFICATION

Product identifier

Field	Information
Product name	BACTALLION Effluent Max Powder
Product code	BT_EMP
Brand	BACTALLION

Recommended use and restrictions

Biological powder formulation intended for wastewater treatment, effluent management, organic waste degradation and odour reduction. Use only as directed on the product label or technical data sheet.

Supplier details

Field	Information
Supplier	Bactallion (Pty) Ltd
Address	Plot 219, Modderfontein, Rustenburg, 0299, North West, South Africa
Telephone	+27 (0)14 495 2982
Email	sales@bactallion.com
Emergency telephone	+27 (0)82 903 3658

SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture

Not classified as hazardous according to the classification information in the source SDS. Classification criteria are not met.

GHS label elements

Element	Statement
Signal word	Not required
Hazard pictograms	Not required
Hazard statements	Not classified as hazardous
Precautionary guidance	Avoid generating dust. Avoid eye contact. Wash hands after handling.

Other hazards

Airborne powder may cause mechanical irritation to the eyes or respiratory tract. Avoid unnecessary dust formation.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

White microbial carrier powder containing the following ingredients as recorded in the source SDS.

Component	CAS number	Concentration
Bacillus amyloliquefaciens	67777-09-9	1.43% w/w

Component	CAS number	Concentration
Bacillus licheniformis	68038-65-3	1.43% w/w
Bacillus subtilis	68038-70-0	1.43% w/w
Bacillus megaterium	68038-65-3 / 68585-79-9	1.43% w/w
Brevibacillus laterosporus	25640-71-3	1.43% w/w
Pseudomonas fluorescens	68558-81-6	1.43% w/w
Rhodopseudomonas palustris	4099-35-8	1.43% w/w
Maltodextrin	9050-36-6	90% w/w

SECTION 4: FIRST-AID MEASURES

Exposure route	First-aid measure
General	Consult a physician if symptoms persist. Show this SDS to the attending medical professional.
Inhalation	Move to fresh air. Keep the affected person warm and at rest. Obtain medical advice if symptoms persist.
Skin contact	Wash thoroughly with soap and water. Obtain medical advice if irritation persists.
Eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses after the first 5 minutes if easy to do. Continue rinsing.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical advice if unwell.

Most important symptoms and treatment

No specific symptoms are known or expected. Treat symptomatically. No specific antidote is known.

SECTION 5: FIRE-FIGHTING MEASURES

Topic	Information
Suitable extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards	Irritating or dangerous gases may be generated during a fire.
Protective equipment	Wear self-contained breathing apparatus and suitable protective clothing where necessary.
Environmental protection	Contain firefighting run-off and prevent entry into drains or watercourses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Avoid dust formation and inhalation.
- Use appropriate personal protective equipment.
- Prevent large releases from entering drains or watercourses.

- Sweep or vacuum carefully and place material in a suitable closed container for disposal.
- Clean the affected area with an appropriate disinfectant where required.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

- Ensure adequate ventilation.
- Avoid unnecessary dust formation.
- Observe good occupational hygiene practices.
- Keep away from food, drink and animal feed.

Conditions for safe storage

- Store in the original, tightly closed container.
- Keep in a dry, cool and well-ventilated place.
- Protect from direct sunlight, extremes of temperature and freezing.
- Restrict access to authorised persons.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control	Recommendation
Engineering controls	Use general ventilation. Apply local extraction where dust may be generated.
Eye / face protection	Wear safety glasses.
Hand protection	Protective gloves are recommended for prolonged or repeated handling.
Respiratory protection	Where airborne dust cannot be controlled, use a suitable particulate respirator in accordance with the manufacturer's instructions and applicable workplace requirements.
Hygiene measures	Wash hands after handling and before eating, drinking or smoking.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical state	Solid
Appearance / colour	White powder
Odour	Slightly sweet
pH	5.6 at 10% solution
Density	Approximately 1.35 g/cm^3
Solubility	Soluble in water
Flash point	No flash point reported
Explosive properties	Not explosive
Oxidising properties	No oxidising properties
Other data	No additional data available

SECTION 10: STABILITY AND REACTIVITY

Topic	Information
Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Hazardous reactions	No hazardous reactions expected when stored and handled as directed.
Conditions to avoid	Freezing, direct sunlight and extremes of temperature.
Incompatible materials	No specific incompatible materials listed. Store only in the original container.
Decomposition products	No hazardous decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Endpoint	Information
Acute toxicity	Recorded as non-toxic in the source SDS.
Skin corrosion / irritation	Classification criteria are not met based on available data.
Serious eye damage / irritation	Mechanical irritation may occur.
Respiratory or skin sensitisation	Classification criteria are not met based on available data.
Mutagenicity	Classification criteria are not met based on available data.
Carcinogenicity	No specific target-organ toxicity was reported in the source SDS.
Reproductive toxicity	Testing not required for microorganisms according to the source SDS.
STOT / aspiration hazard	Classification criteria are not met based on available data.

SECTION 12: ECOLOGICAL INFORMATION

Topic	Information
Ecotoxicity	Contains naturally occurring microorganisms associated with degradation of natural substrates and nutrient recycling.
Persistence / degradability	The source SDS describes the formulation as inherently biodegradable according to OECD 302B.
Bioaccumulative potential	Bioaccumulation is not expected based on the source SDS.
Mobility in soil	Mobile in soil due to water solubility.
PBT / vPvB assessment	Assessment not available.
Endocrine-disrupting properties	No specific adverse endocrine-disrupting properties identified in the source SDS.

SECTION 13: DISPOSAL CONSIDERATIONS

- Dispose of product and contaminated material in accordance with applicable local requirements.
- Do not discharge concentrated product into drains or watercourses.
- Empty packaging should be thoroughly cleaned before recycling or disposal where permitted.
- Consult the relevant waste authority when additional guidance is required.

SECTION 14: TRANSPORT INFORMATION

Transport item	Classification
UN number	Not assigned
UN proper shipping name	Not assigned
Transport hazard class	Not regulated
Packing group	Not applicable
Environmental hazards	None identified
Special precautions	Protect packaging from moisture, direct sunlight and damage.
Transport in bulk according to IMO instruments	Not applicable

SECTION 15: REGULATORY INFORMATION

A chemical safety assessment is not stated as required in the source SDS. Users must confirm all applicable national and local requirements before placing the product on the market or using it in a regulated application.

HMIS category	Rating
Health	0
Flammability	0
Physical hazard	0
Personal protection	B

SECTION 16: OTHER INFORMATION

Document control

Field	Details
Product	BACTALLION Effluent Max Powder
Product code	BT_EMP
Version / revision	01.00 / 01.00
Issue date	23 October 2026
Prepared for	Bactallion (Pty) Ltd

Field	Details
Technical contact	chris@bactallion.com

Disclaimer

The information in this Safety Data Sheet is believed to be accurate and represents the best information currently available. No warranty, express or implied, is made regarding its completeness or suitability for a specific purpose. Users are responsible for determining the suitability of the product for their intended application and for complying with applicable legal and workplace requirements.

Final verification notice

Before external publication, Bactallion should verify the product code, formulation percentages, organism identifiers and CAS numbers, intended-use claims, regulatory classification, issue date and responsible signatory.