EXPLODE MAX

AGRICULTURE RANGE · REVITALISING SOIL & WATER · TECHNICAL PRODUCT SHEET

PRODUCT OVERVIEW

Product name	Explode Max
Product code	EXMAX01
Updated from	Bactallion Bio Restart
Recommended use	Microbial biostimulant for agricultural and horticultural applications
Branding	Revitalising Soil & Water



COMPOSITION / INGREDIENTS

A proprietary blend of beneficial microbial cultures, organic carriers, and stabilising agents.



TECHNICAL POSITIONING

Beneficial microbial strains support soil health.

SOIL HEALTH
Beneficial microbial support

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellowish powder
Odour	Mild, earthy
pH	Neutral
Solubility	Dispersible in water
Density	Not specified in current MSDS

SAFETY, HANDLING AND STORAGE

Non-hazardous under GHS classification. Avoid inhaling dust and contact with eyes. Store in a cool, dry place and keep sealed when not in use. Avoid moisture exposure. Crop Shield products additionally specify protection from direct sunlight and moisture. Optional handling PPE: dust mask, gloves and safety glasses.

EXPLODE PROMOTER NITRO

AGRICULTURE RANGE · REVITALISING SOIL & WATER
TECHNICAL PRODUCT SHEET

PRODUCT IDENTIFICATION

Product name	Explode Promoter Nitro
Product code	EXNITRO01
Updated from	Bactallion Bio N
Recommended use	Nitrogen-enhancing microbial biostimulant for agricultural and horticultural applications
Branding	Revitalising Soil & Water



COMPOSITION / INGREDIENTS

A proprietary blend of nitrogen-fixing microbial cultures, organic carriers, and stabilising agents.



TECHNICAL POSITIONING

Nitrogen-fixing microbes support soil fertility.



PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light beige to yellowish powder
Odour	Mild, earthy
pH	Neutral
Solubility	Dispersible in water
Density	Not specified in current MSDS

SAFETY, HANDLING AND STORAGE

Non-hazardous under GHS classification. Avoid inhaling dust and contact with eyes. Store in a cool, dry place and keep sealed when not in use. Avoid moisture exposure. Crop Shield products additionally specify protection from direct sunlight and moisture. Optional handling PPE: dust mask, gloves and safety glasses.

EXPLODE PROMOTER CATO

AGRICULTURE RANGE · REVITALISING SOIL & WATER · TECHNICAL PRODUCT SHEET

PRODUCT IDENTIFICATION

Product name	Explode Promoter Cato
Product code	EXCATO01
Updated from	Bactallion Bio Catalyst
Recommended use	Microbial catalyst biostimulant for agricultural and horticultural applications
Branding	Revitalising Soil & Water



COMPOSITION / INGREDIENTS

A proprietary blend of microbial catalyst cultures, organic carriers, and stabilising agents.



TECHNICAL POSITIONING

Catalyst microbes support soil biological activity.



PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light beige powder
Odour	Mild, earthy
pH	Neutral
Solubility	Dispersible in water
Density	Not specified in current MSDS

SAFETY, HANDLING AND STORAGE

Non-hazardous under GHS classification. Avoid inhaling dust and contact with eyes. Store in a cool, dry place and keep sealed when not in use. Avoid moisture exposure. Crop Shield products additionally specify protection from direct sunlight and moisture. Optional handling PPE: dust mask, gloves and safety glasses.

SHIELD PHYTO

AGRICULTURE RANGE · CROP SHIELD · TECHNICAL PRODUCT SHEET

PRODUCT IDENTIFICATION

Product name	Shield Phyto
Product code	SHPHY01
Updated from	Bactallion TerraFolia / Protector F
Recommended use	Microbial foliage-protection biostimulant
Branding	Crop Shield



COMPOSITION / INGREDIENTS

Bacillus amyloliquefaciens; Bacillus pumilus; Trichoderma harzianum; Brevibacillus laterosporus;



TECHNICAL POSITIONING

Microbes are naturally occurring soil organisms; inherently biodegradable (OECD 302B).



PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow powder
Odour	Mild, earthy
pH	~5.6 (10% solution)
Solubility	Water-soluble
Density	~1.35 g/cm3

SAFETY, HANDLING AND STORAGE

Non-hazardous under GHS classification. Avoid inhaling dust and contact with eyes. Store in a cool, dry place and keep sealed when not in use. Avoid moisture exposure. Crop Shield products additionally specify protection from direct sunlight and moisture. Optional handling PPE: dust mask, gloves and safety glasses.

SHIELD NEMA

AGRICULTURE RANGE · CROP SHIELD · TECHNICAL PRODUCT SHEET

PRODUCT IDENTIFICATION

Product name	Shield Nema
Product code	SHNEMA01
Updated from	Bactallion TerraFortis / Protector N
Recommended use	Microbial nematode-suppression biostimulant for agricultural and horticultural crops
Branding	Crop Shield



COMPOSITION / INGREDIENTS

Paecilomyces lilacinus; Bacillus firmus; Trichoderma asperellum; Bacillus subtilis; Rhodopseudomonas



TECHNICAL POSITIONING

Supports soil biological balance and nematode



PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Orange-brown powder
Odour	Mild, earthy
pH	~5.8 (10% solution)
Solubility	Water-soluble
Density	~1.32 g/cm3

SAFETY, HANDLING AND STORAGE

Non-hazardous under GHS classification. Avoid inhaling dust and contact with eyes. Store in a cool, dry place and keep sealed when not in use. Avoid moisture exposure. Crop Shield products additionally specify protection from direct sunlight and moisture. Optional handling PPE: dust mask, gloves and safety glasses.

SHIELD INSECTA

AGRICULTURE RANGE · CROP SHIELD · TECHNICAL PRODUCT SHEET

PRODUCT IDENTIFICATION

Product name	Shield Insecta
Product code	SHINS01
Updated from	Bactallion TerraVigor / Protector I
Recommended use	Microbial insect-suppression biostimulant for agricultural and horticultural crops
Branding	Crop Shield



COMPOSITION / INGREDIENTS

Beauveria bassiana; Metarhizium anisopliae; Bacillus thuringiensis; Trichoderma harzianum;



TECHNICAL POSITIONING

Supports natural insect suppression and crop



PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light brown powder
Odour	Mild, earthy
pH	~5.7 (10% solution)
Solubility	Water-soluble
Density	~1.34 g/cm3

SAFETY, HANDLING AND STORAGE

Non-hazardous under GHS classification. Avoid inhaling dust and contact with eyes. Store in a cool, dry place and keep sealed when not in use. Avoid moisture exposure. Crop Shield products additionally specify protection from direct sunlight and moisture. Optional handling PPE: dust mask, gloves and safety glasses.



SHIELD INSECTA KGI

AGRICULTURE RANGE · CROP SHIELD · TECHNICAL PRODUCT SHEET

PRODUCT IDENTIFICATION

Product name	Shield Insecta KGI
Product code	SHKGI01
Updated from	Bactallion BT3 / Protector I KGI
Recommended use	Microbial insect-targeting biostimulant for agricultural and horticultural crops
Branding	Crop Shield



COMPOSITION / INGREDIENTS

Bacillus thuringiensis kurstaki (BTKGI strain); Beauveria bassiana; Metarhizium anisopliae;



TECHNICAL POSITIONING

Supports natural insect suppression and crop



PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light beige powder
Odour	Mild, earthy
pH	~5.9 (10% solution)
Solubility	Water-soluble
Density	~1.33 g/cm3

SAFETY, HANDLING AND STORAGE

Non-hazardous under GHS classification. Avoid inhaling dust and contact with eyes. Store in a cool, dry place and keep sealed when not in use. Avoid moisture exposure. Crop Shield products additionally specify protection from direct sunlight and moisture. Optional handling PPE: dust mask, gloves and safety glasses.

BIOLOGICAL APPLICATION QUICK REFERENCE

AGRICULTURE RANGE · APPLICATION QUICK REFERENCE

GENERAL WATER AND APPLICATION CONDITIONS

Water pH	5.8–7.2
EC	Preferably below 1.5 mS/cm
Chlorine	Ideally below 0.5 ppm
Tank temperature	15–30°C ideal; avoid water above ~35°C
Spray timing	Early morning or late afternoon preferred
Midday spraying	Avoid above 32°C



MIXING SEQUENCE

1. Water · 2. Correct pH if necessary · 3. Liquid nutrition · 4. Adjuvants · 5. Biological products last. Apply immediately; never leave biologicals standing in a spray tank overnight.



CROP SHIELD APPLICATION REFERENCE

Shield Phyto	Soil drench: 100–200 L/ha. Foliar: 400–1000 L/ha. Disease-pressure intervals: 21 days low, 14 days moderate, 7–10 days high.
Shield Nema	100–200 L/ha into active root zone. Apply before nematode hatch or immediately after planting. Reapply every 8–10 weeks in heavy sandy soils or 10–12 weeks in medium soils.
Shield Insecta	Foliar water volume: 400–1000 L/ha. Apply before peak egg hatch or during early larval stages. Coverage is essential.

NAME TRANSLATION USED IN FIELD GUIDE

TerraFolia = Shield Phyto · TerraFortis = Shield Nema · TerraVigor = Shield Insecta. The field guide does not provide a separate Shield Insecta KGI application protocol, so no KGI-specific rate is provided.