

Section 1: Chemical Product and Company Identification

Product name: Endo-Fight 3 in 1

Product Type: An aqueous microbial product containing cultures of *Bacillus amyloliquefaciens*, *Azospirillum brasilense*, and *Pseudomonas fluorescens*

Product Use: For application to the soil for the management of soil borne pests.

Manufacturer/supplier information: Biofilm Crop Solutions. A Division of Novum Lifesciences.
1/5 Scotland St Bundaberg Qld 4670
07 4132 5055

Emergency No: Dial 000 or Poisons Information Centre: 131126

Section 2: Hazards Identification

Statement of Hazardous Nature:

This product is classified as **NON-HAZARDOUS** according to the criteria of NOHSC Australia. Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

SUSDP Classification: None allocated.
ADG Classification: None allocated.
UN Number: None allocated.

Section 3: Composition and Information on Ingredients

Ingredients	CAS	Percent w/v
<i>B. amyloliquefaciens</i> , cultures	-	<1 %
<i>A. brasilense</i> , cultures	-	<1 %
<i>P. fluorescens</i> , cultures	-	<1 %
Non-hazardous components	-	<1 %
Water		to 100%

Exposure limits have not been established by ASCC for these ingredients, that is, no TWA or STEL limits set.

Section 4: First Aid Measures

- After inhalation:** Remove to fresh air upwind from source. Contact a Poisons Information Centre or a doctor if conditions deteriorate.
- After skin contact:** Wash skin with clean running water. If irritation persists, repeat flushing and obtain medical advice.
- After eye contact:** Wipe away excess product away from eyes. Immediately flush the contaminated eye(s) with flowing fresh water until the product is removed, while holding the eyelid(s) open.
- After swallowing:** Rinse mouth several times with clean fresh water. If in doubt, contact a Poisons Information Centre or a doctor. DO NOT induce vomiting. Give plenty of fresh water to drink after rinsing of mouth. **Advice to Doctor** – Treatment is symptomatic.
- First Aid facilities:** Maintain eyewash station and drench facilities in the work area.

Section 5: Fire Fighting Measures

Fire and Explosion Hazards: Non-combustible. Decomposes on heating emitting toxic fumes. Firefighters wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to decomposed product.

Extinguishing Media: Not Combustible. However, use medias to suit surrounding material and packaging material, that is, for example plastic containers.

Fire Fighting: When fighting fires involving significant quantities of this product, wear a splash suit complete with self-contained breathing apparatus.

Upper Flammability Limit: Does not burn
Autoignition Temperature: Does not burn

Lower Flammability Limit: Does not burn
Flammability Class: Does not burn

Section 6: Accidental Release Measures

In the event of an accidental spill, control spill at source. Slippery when spilt. Wear full protective clothing including face mask and face shield. All skin areas should be covered. Cover with absorbent material, e.g. sand or soil. Avoid using sawdust or other combustible material. Sweep up, wet vacuum if available, collect and seal product into labelled containers for salvage, and dispose of promptly at approved site.

Section 7: Handling and Storage

Handle with care and keep exposure to this product to as minimal as practical. Ensure adequate ventilation while handling product. Store in closed original container in a well ventilated shaded area. Keep container tightly closed when not in use. Keep container out of reach of children. **DO NOT** store in direct sunlight or above 25 degrees Celsius (room temperature).

Section 8: Exposure Control / Personal Protection

Personal Protective Equipment:

Australian Standards regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715/16** Protective Gloves: **AS 2161**

Industrial Clothing: **AS2919** Industrial Eye Protection: **AS1336** and **AS/NZS 1337** Occupational

Protective Footwear: **AS/NZS2210**

Section 9: Physical and Chemical Properties

Physical Description and Colour: Liquid, brown liquid

Odour: earthy odour

Density: 50mg/100ml.

Water Solubility: Soluble in water.

pH: Approx. 6.8 – 7.6

Volatility: No data.

Autoignition temp: Does not combust.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal temperatures.

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid: Direct sunlight, lack of ventilation.

Hazardous Polymerization: Hazardous polymerisation is not possible.

Section 11: Toxicology Information

No adverse health effects would be expected if handled according to the label and this SDS. Symptoms or effects that may arise if mishandled or with unprotected overexposure maybe;

Skin contact: May result in mild irritation with sensitive skin.

Eye contact: May cause irritation through dust discomfort and associated physical irritation.

Ingestion: No adverse effects expected although large amounts may cause nausea and /or vomiting.

Inhalation: No real issues here as aqueous formulation.

Neither a LD50 nor LC50 is available for this product.

Section 12: Ecological Information

Ecotoxicity: No data is available for this material

Persistence/ Degradability: No data is available for this material

Mobility: No data is available for this material

Section 13: Disposal Considerations

Instructions for the disposal of this product and its containers are listed on the product label.

For collection of unwanted rural products, contact ChemClear®, tel 1800 008 182
www.chemclear.com.au For help with the disposal of empty drums, contact DrumMuster®
www.drummuster.com.au for local and State contacts.

Section 14: Transport Information

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN Number:	None allocated.
Proper Shipping Name:	None allocated.
ADG Class:	None allocated. Not a Dangerous Good
Hazchem Code:	None allocated.
Packaging Group:	None Allocated.

Section 15: Regulatory Information

Not classified as hazardous according to criteria of NOHSC.

SUSDP:	None allocated.
APVMA Registered:	Not required. No pesticide claim.

Section 16: Other Information

This SDS contains only safety-related information sourced from the public domain and analytical results on this product.

Acronyms:

ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

AICS: Australian Inventory of Chemical Substances

CAS number: Chemical Abstracts Service Registry Number

Hazchem Number: Emergency action code of numbers and letters that provide information for firefighters

IARC: International Agency for Research on Cancer

ASCC: Office of the Australian Safety and Compensation Council

NTP: National Toxicology Program (USA)

R-Phrase: Risk Phrase

SUSDP: Standard for the Uniform Scheduling of Drugs & Poisons

UN Number: United Nations Number

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