

# Safety Data Sheet

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## 1. Identification of The Material and Supplier

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|--------------------------|---|
| 1.1. Product identifier: | MeliorAdapt   |
| 1.2. Product Use:        | Biological soil amendment.  |
| 1.3. Manufacturer        | New Edge Microbials Pty Ltd<br>951 Garland Avenue<br>North Albury, NSW, 2640<br>Australia |
| 1.4. Telephone Number    | +61 2 6025 0044   |

## 2. Hazards Identification

- |                      |   |
|----------------------|---|
| 2.1. Classification: | Not classified as Hazardous according to the criteria of GHS. |
| 2.2. Label elements: | Not applicable.   |
| 2.3. Other hazards:  | Not applicable.   |

## 3. Composition / Information On Ingredients

- |                 |  |
|-----------------|--|
| 3.1. Substances | Bacillus amyloliquefaciens, Streptomyces sp., Trichoderma harzianum. Microbial species guaranteed to be GM free. |
| 3.2. Mixtures   |  |

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP) and GHS		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
Trichoderma harzianum.	Not applicable	Not applicable	Not applicable	50%	Not applicable	Not applicable	Not applicable
Bacillus amyloliquefaciens	Not applicable	Not applicable	Not applicable	25%	Not applicable	Not applicable	Not applicable
Streptomyces sp.	Not applicable	Not applicable	Not applicable	25%	Not applicable	Not applicable	Not applicable

## 4. First Aid Measures

- |  |             |  |
|--|-------------|--|
| 4.1. Description of first aid measures | Inhalation: | If difficulty in breathing occurs, move affected person to fresh air. Loosen clothing to ease breathing. Seek immediate medical attention. |
|  | Ingestion:  | Maybe harmful if swallowed. Rinse mouth with clean water and then seek immediate medical attention.  |
|  | Skin:       | If irritation develops, seek medical attention. Remove and wash contaminated clothing before reuse.  |
|  | Eyes:       | Avoid contact with eyes. May irritate the eyes. Flush eyes with flowing water for at least 15 minutes. Seek medical attention.             |

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4.2. Most important symptoms and effects, both acute and delayed: No significant reaction of the human body to the product known.

4.3. Indication of any immediate medical attention and special treatment needed: Not applicable.

### 5. Firefighting Measures

5.1. Extinguishing media

5.1.1. Suitable extinguishing media Water, foam, CO<sub>2</sub>, powder, water mist and wet chemical.

5.1.2. Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture: None known.

5.3. Advice for firefighters: Fire fighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus.

### 6. Accidental Release Measures

6.1. Personal precautions, protective equipment

6.1.1. For non-emergency personnel: Wear elbow length rubber gloves and half facepiece respirator.

6.1.2. For emergency responders: Fire fighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus.

6.2. Environmental precautions: None known.

6.3. Methods and material for containment and cleaning up: Wash off any contaminated surface with water and detergent. Use disinfectants if possible.

6.4. Reference to other sections: See section 8 for Exposure Controls and 13 for Disposal Considerations.

### 7. Handling and Storage

7.1. Precautions for safe handling: Exercise normal care in handling. Do not remove from packaging until ready to use, avoid contaminating the culture.

7.2. Conditions for safe storage, including any incompatibilities: Store in the original container in a dry area, within a temperature range of 4 -25°C. Do not freeze.

7.3. Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### 8. Exposure Controls/Personal Protection

8.1. Control Parameters:

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

#### PNEC values

Compartment	Value	Note(s)
Freshwater	no data	no notes

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Maine water	no data	no notes
Freshwater sediment	no data	no notes
Marine water sediment	no data	no notes
Sewage Treatment Plant (STP)	no data	no notes
Intermittent release	no data	no notes
Secondary Poisoning	no data	no notes
Soil	no data	no notes

### 8.2. Exposure controls:

8.2.1. Appropriate engineering controls:

Ensure sufficient natural or mechanical ventilation.

8.2.2. Individual protection measures, such as personal protective equipment:

Respiratory protection

Wear a half face piece respirator or dust mask.

Eye protection

Chemical goggles, safety glasses or face shield.

Skin protection

Elbow length rubber gloves, overalls, apron, and boots are necessary to prevent skin contact.

8.2.3. Environmental exposure controls:

This product is not defined as hazardous, control exposure to environment in accordance with the environmental authority having jurisdiction.

## 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties:

Parameter	Value / Test method / Remarks
1 Physical state	Liquid
2 Colour	Light brown
3 Odour, odour threshold	Earthy odour
4 Melting point/freezing point	N/A
5 Boiling point or initial boiling point and boiling range	N/A
6 Flammability	N/A
7 Lower and upper explosion limit	N/A
8 Flash point	N/A
9 Auto-ignition temperature	N/A
10 Decomposition temperature	N/A
11 pH	6.9
12 Kinematic viscosity	N/A
13 Solubility in water in other solvents	Dispersible N/A
14 Partition coefficient n-octanol/water (log value)	N/A
15 Vapour pressure	N/A
16 Density and/or relative density	N/A
17 Relative vapour density	N/A
18 Particle characteristics	N/A

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## 9.2. Other information:

9.2.1. Information regarding physical hazard classes: Not classified as a hazardous substance.

9.2.2. Other safety characteristics: Not classified as a hazardous substance.

## 10. Stability and Reactivity

10.1. Reactivity:	Not reactive.
10.2. Chemical stability:	Stable.
10.3. Possibility of hazardous reactions:	None known.
10.4. Conditions to avoid:	Direct sunlight, extremes in temperature, high humidity. The microorganisms start to die at $\geq 40^{\circ}\text{C}$ .
10.5. Incompatible materials:	Long term storage in direct contact with reactive metals such as aluminium, zinc, copper, nickel, and magnesium. Other materials to avoid include strong oxidizing agents, disinfectants, fungicides, and biocides.
10.6. Hazardous decomposition products:	Will not emit noxious fumes. Hazardous polymerization will not occur.

## 11. Toxicological Information

11.1. Information on hazard classes	Not classified as a hazardous substance.	
11.1.1. Summaries of the information derived from the test conducted:	N/A	
11.1.2. Relevant toxicological properties:	N/A	
11.1.3. Information on likely routes of exposure:	Inhalation, eyes, ingestion, and skin.	
11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:	Inhalation	Prolonged inhalation may lead to respiratory tract irritation.
	Ingestion	Maybe harmful if swallowed.
	Eyes	Prolonged or repeated exposure may cause mechanical irritation.
	Skin	Prolonged or repeated exposure may cause irritation, redness, and inflammation.
11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:	Long term exposure may cause mechanical irritation of the eyes as well as skin and respiratory tract irritation.	
11.1.6. Interactive effects:	May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.	
11.1.7. Absence of specific data:	N/A	
11.2. Information on other hazards:	Carcinogenicity	No information available.

## 12. Ecological Information

12.1. Toxicity:	N/A
12.2. Persistence and degradability:	N/A
12.3. Bioaccumulative potential:	N/A
12.4. Mobility in soil:	N/A
12.5. Results of PBT and vPvB assessment:	N/A
12.6. Endocrine disrupting properties:	N/A
12.7. Other adverse effects:	N/A

## 13. Disposal Considerations

13.1. Waste treatment methods:

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- 13.1.1. Information regarding the disposal of the product: Dispose according to advice of environmental authority with jurisdiction.
- 13.1.2. Information regarding the disposal of the packaging: Dispose according to advice of environmental authority with jurisdiction.
- 13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified: N/A
- 13.1.4. Sewage disposal: Dispose according to advice of environmental authority with jurisdiction.
- 13.1.5. Special precautions for any recommended waste treatment: N/A

### 14. Transport Information

	Land Transport	Sea Transport	Air Transport
14.1. UN number or ID number:	Not classified as Hazardous	Not classified as Hazardous	Not classified as Hazardous
14.2. UN proper shipping name:	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es):	Not applicable	Not applicable	Not applicable
14.4. Packing group:	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards:	Not applicable	Not applicable	Not applicable
14.6. Special precautions for user:	Not applicable	Not applicable	Not applicable
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	Not classified as Hazardous	Not classified as Hazardous	Not classified as Hazardous
Transport Additional Information	Avoid extremes in temperature, product quality may degrade $\geq 30^{\circ}\text{C}$ .	Avoid extremes in temperature, product quality may degrade $\geq 30^{\circ}\text{C}$ .	Avoid extremes in temperature, product quality may degrade $\geq 30^{\circ}\text{C}$ .

### 15. Regulatory Information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture: Chemical safety assessment: N/A

### 16. Other Information

Emergency Contacts (Australia)  
 Police and Fire Brigade (Australia): 000  
 Poisons Information Centre (Australia): 131 126  
 SDS prepared by: New Edge Microbials Pty Ltd (Australia)  
 Last revision of SDS: 24 August 2022

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