

Section 1 Identification of the mixture and of the company	
1.1 Product identifier	
Product name	T-Protac Easy-Flow
Synonyms	Eco-T Ezi-Flo
1.2 Relevant identified uses of the mixture and uses advised against	
Use of the product	Biofungicide
Uses advised against	Do not use for any other purpose than described on the product label
1.3 Details of the supplier of the Safety Data Sheet	
Manufacturer	Andermatt PHP (Pty) Ltd 19 Petrus Stroom Road, Dargle, 3265 KwaZulu-Natal, South Africa
Phone	+27 33 2666130
E-mail	info@ander-matt-php.co.za
1.4 Emergency telephone number	
Phone (medical)	+27 861555777 (24-H; South African Poison Information Centre)
Emergency number:	+27 82 446 8946 (24-H; GPIC)
Section 2 Hazards identification	
2.1 Classification of the mixture	Conforms to the requirements of the GHS and to Section 14 of the Regulations for Hazardous Chemical Agents, 2021 Not Classified
2.2 Label elements	Precautionary statements Read label before use Keep out of reach of children. Wear protective gloves/protective clothing/eye protection. Do not eat, drink, or smoke when using this product. Wash hands and face thoroughly after handling. Do not touch eyes. Avoid breathing dust, mist or spray. IF IN THE EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water IF INHALED: Remove person to fresh air and keep comfortable for breathing If medical advice is needed, have product container or label at hand Contains <i>Trichoderma asperellum</i>. Microorganisms may have the potential to provoke sensitising reactions.
2.3 Other hazards	This mixture does not contain any substances, which are persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB) or endocrine disruptors

Section 3 Composition/information on ingredients

3.1 Substances

This product is a mixture

3.2 Mixtures

Trichoderma asperellum strain kd spores in an inert carrier
There are no other ingredients which are hazardous within the meaning of GHS and South African Occupational Health and Safety Act (85/1993): Regulations for Hazardous Chemical Agents, 2021

Section 4 First aid measures

4.1 Description of first aid measures

General notes	Change any contaminated or wetted clothing at once. If poisoning occurs, contact a doctor or local poison/toxicology centre.
Following inhalation	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get emergency medical help immediately
Following skin contact	Wash with plenty of water. If skin irritation or rash occurs: Get medical help. Take off contaminated clothing and wash it before reuse.
Following eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help.
Following ingestion	Rinse mouth with water for several minutes. Get medical help if you feel unwell.
Advice to physician	Symptomatic treatment

4.2 Most important symptoms and effects, both acute and delayed

Microorganisms may have the potential to provoke sensitising reactions.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Section 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, Foam, Carbon dioxide or dry powder may be used but select extinguishing media that is appropriate for local circumstances and the surroundings.

5.2 Special hazards arising from the mixture

Development of hazardous combustion gasses or vapours is possible in the event of fire.

5.3 Advice for firefighters

Avoid breathing vapours and combustion by-products that may be emitted. Use self-contained breathing apparatus and complete protective clothing. Do not attempt to act without suitable protective equipment

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

The wearing of suitable protective equipment (including personal protective equipment, see Section 8 of the SDS) to prevent any contamination of skin, eyes and personal clothing. Wash hands thoroughly after handling

6.2 Environmental precautions

Do not apply directly to water courses or to areas where surface water is present. Do not dispose of rinsate or containers in water courses. Prevent spills from entering storm sewers or drains.

6.3 Methods and material for containment and cleaning up

Sweep or vacuum, without creating dust, into a suitable container for disposal and wash area with water.

6.4 Reference to other sections

See personal protective equipment under Section 8 of SDS.

Section 7 Handling and storage
7.1 Precautions for safe handling

Wear protective gloves/protective clothing/eyewear.
 Ensure that open wounds are covered.
 Do not eat, drink, or smoke when using this product.
 Wash hands and face thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in the original container under cool, dry conditions between 4 and 10°C. Avoid contact with fungicides and all materials toxic to microorganisms to maintain product quality. Keep out of reach of children and uninformed persons

7.3 Specific end use(s)

Biostimulant

Section 8 Exposure controls/personal protection
8.1 Control parameters

The usual precautionary measures for handling microbial products should be observed. Provide adequate ventilation.

8.2 Exposure controls

Eye/face protection	Wear eye protection
Skin protection	Wear protective clothing
Respiratory protection	In case of inadequate ventilation, wear respiratory protection.
Thermal hazards	No specific recommendations
Other information	None

Section 9 Physical and chemical properties
9.1 Information on basic physical and chemical properties

Physical state	Powder
Colour	Grey
Odour	Very slight mushroomy odour
pH	9
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not applicable
Flash point	Not flammable
Flammability	Not flammable
Upper/lower flammability or explosive limits	Not flammable
Vapour pressure	Not applicable

Vapour density	Not relevant
Relative density	0.44 g/mL
Solubility(ies)	Insoluble
Partition coefficient: n- octanol/water	Not applicable
Auto-ignition temperature	Not available
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not explosive
Oxidising properties	Not determined
Particle characteristics	Not determined

9.2 Other information

None

Section 10 Stability and Reactivity

10.1 Reactivity

Not reactive

10.2 Chemical stability

No decomposition if stored and handled according to
 recommendations

10.3 Possibility of hazardous reactions

No known hazardous reactions

10.4 Conditions to avoid

Avoid very low or very high temperatures.

10.5 Incompatible materials

Fungicides and toxic compounds (to maintain product viability)

10.6 Hazardous decomposition products

The mixture is not expected to produce hazardous decomposition
 products when used and stored properly

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Classification is not possible.
Germ cell mutagenicity	Classification is not possible.
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Classification is not possible.
Aspiration hazard	Not determined

11.2 Information on other hazards

Not applicable

Section 12 Ecological information	
12.1	Toxicity Acute (short-term) toxicity Fish Not determined Crustacea Not classified Algae/aquatic plants Not determined Other organisms Not determined Chronic (long-term) toxicity Fish Not classified Crustacea Not classified Algae/aquatic plants Not determined Other organisms Not determined
12.2	Persistence and degradability Abiotic Degradation Not determined Physical- and photo-chemical elimination Not determined Biodegradation Not determined
12.3	Bioaccumulative potential Octanol/water partition coefficient (Kow) Not determined Bioconcentration factor (BCF) Not determined
12.4	Mobility in soil Known or predicted distribution to environmental compartments Not determined Surface tension Not determined Adsorption/Desorption Not determined
12.5	Results of PBT and vPvB assessment This mixture does not contain any PBT or vPvB substances.
12.6	Other adverse effects None
12.7	Additional information None
Section 13 Disposal considerations	
13.1	Waste treatment methods Product/Packaging disposal Use pressure rinsing devices or triple rinsing with water to reduce any product residues in the container to insignificant levels. Don't dispose product or containers on ponds, rivers or ditches. Don't re-use containers for other purposes. Waste disposal and recycling contractors will take cleaned containers. Waste resulting from the use of the product must be disposed on site or on an approved waste disposal facility. Empty the sprayer out in the field being treated by spraying out on to a relatively pest free part of the field left unsprayed or under-dosed for the crop. Waste codes/waste designations Not applicable Waste treatment-relevant information None

Sewage disposal-relevant
 information
 Other disposal
 recommendations

Waste should not be disposed of by release to sewers

None

Section 14 Transport Information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

No dangerous goods

14.3 Transport hazard class(es)

Not restricted

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not environmentally hazardous

14.6 Special precautions for user

Not applicable

 14.7 Maritime transport in bulk
 according to IMO
 instruments

Not applicable

Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the mixture

Authorisations

Not relevant

Restrictions on use

Not relevant

Relevant safety regulations

Regulations for hazardous chemical agents 2021, Department of Employment and Labour (March 2021).

Relevant health regulations:

 Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).
 The National Environmental Management Act, 107 of 1998 (NEMA).

 Relevant environmental
 regulations:

 Guidelines on the administration of incidents, as described in
 section 30 of the NEMA, Department of Environmental Affairs
 (2019).

15.2 Chemical Safety Assessment

 Advice on product handling can be found in sections 7 and 8 of
 this SDS.

Section 16 Other information

 This information only concerns the above-mentioned product and
 does not need to be valid if used with other product(s) or in any
 process. The information is to our best present knowledge correct
 and complete and is given in good faith but without warranty. It
 remains the user's own responsibility to make sure that the
 information is appropriate and complete for his special use of this
 product.