

Section 1 Identification of the mixture and of the company

1.1 Product identifier

Product name *Nexula®-N Easy Flow*
 Synonyms

1.2 Relevant identified uses of the mixture and uses advised against

Use of the product Biostimulant
 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
 Address 19 Petrus Stroom Road, Dargle, 3265
 KwaZulu-Natal, South Africa
 Phone +27 33 2666130
 E-mail info@andermatt-php.co.za

1.4 Emergency telephone number

Phone (medical) +27 861555777 (24-H; South African Poison Information Centre)
 Emergency number +27 824469646 (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

2.2 Label elements

Read the label before use
 Keep out of the reach of children
 Wear protective gloves/protective clothing/eye protection
 In case of inadequate ventilation, wear respiratory 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 experiencing respiratory symptoms: Get emergency medical help immediately
 Contaminated work clothing should not be allowed out of the workplace
 Dispose of contents and/or container in accordance with regulations
 If medical advice is needed, have product container or label at hand

Contains *Priestia megaterium* endospores. 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

Priestia megaterium endospores 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. contact a doctor or local poison/toxicology centre for medical advice
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	No typical symptoms and effects known. IF SWALLOWED: 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 Specific hazards arising from the mixture

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

5.3 Special protective actions for fire-fighters

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. Prevent entry into water courses. Dispose according to local regulations.

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 bactericides 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	Dry powder
Colour	Light grey
Odour	Fruity cheese-like odour
pH	9.12(1% solution in water)
Melting point/freezing point	Not applicable

Initial boiling point and boiling range	Not applicable
Flash point	Not determined
Flammability	Non-flammable
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not applicable
Vapour density	Not relevant
Bulk density	Not determined
Solubility(ies)	Insoluble
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not determined
Viscosity	Not applicable
Explosive properties	Non-explosive
Oxidising properties	Not determined
Evaporation rate	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

Bactericides 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	Not determined
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Aspiration hazard	Not classified
STOT-single exposure	Not classified

STOT-repeated exposure Not classified

Section 12 Ecological information
12.1 Toxicity
Acute (short-term) toxicity

Fish	Not classified
Crustacea	Not classified
Algae/aquatic plants	Not classified
Other organisms	Not classified

Chronic (long-term) toxicity

Fish	Not determined
Crustacea	Not determined
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	Biodegradable

12.3 Bioaccumulative potential

Octanol/water partition coefficient (K _{ow})	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 substances that are assessed to be a PBT or a vPvB.

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
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Waste codes/waste designations	pest free part of the field left unsprayed or under-dosed for the crop. Not applicable
Waste treatment-relevant information	None
Sewage disposal-relevant information	Waste should not be disposed of by release to sewers
Other disposal recommendations	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.

Section 16 Other information

The information only concerns the above-mentioned product and does not need to be valid if used with other products 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 responsibility to make sure that the information is appropriate and complete for particular use of the product

Reason for version update: SDS updated in compliance with GHS classification