



headland
AMENITY PRODUCTS

PRODUCT SAFETY DATA SHEET

'SOLUFEED' TEMAG Plus HPE

1. Identification of the substance/mixture and of the company/undertaking:

1.1 Product identifier:

'SOLUFEED' TEMAG Plus HPE

1.2 Relevant identified uses of the substance or mixture and uses advised against:

A water-soluble micronutrient package with Harpin Plant Elicitor for use on amenity turf

1.3 Details of the supplier of the safety data sheet:

Headland Amenity Ltd,
1010 Cambourne Business Park,
Cambourne
Cambridgeshire
CB23 6DP
Tel : +44 (0) 1223 597834
Fax - +44 (0) 1223 598052
e-mail info@headlandamenity.com

1.4 Emergency telephone number:

Tel : +44 (0) 1223 597834 during office hours (9am-5pm, Monday-Friday)

2. Hazards Identification:

2.1 Classification of the substance or mixture;

This mixture is not classified as harmful to humans or the environment according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation)

2.2 Label elements:

There are no statutory labelling requirements under Directive 1999/45/EC as the mixture is not classified as harmful to humans or the environment

2.3 Other hazards:

No Information available

3: Composition/information on ingredients:

3.2 Mixtures

No information is specified on individual components as the mixture is not classified as harmful to humans or the environment.

A combination of inorganic water-soluble metal chelates and salts – mixture, no CAS number

4. First Aid Measures:

4.1 Description of first aid measures:

Eyes:	Irrigate with clean water for at least 15 minutes, remove contact lenses if present and easy to do so after 5 minutes. Seek medical attention if any irritation or redness persists.
Skin:	Wash thoroughly with soap and water. Seek medical advice if any irritation persists or develops later.
Ingestion:	If swallowed, wash out mouth with water. DO NOT induce vomiting. Obtain medical advice.
Inhalation:	Remove from source of exposure into fresh air. Seek medical advice if irritation persists or develops later.

4.2 Most important symptoms and effects, both acute and delayed:

No further information available

4.3 Indication of any immediate medical attention and special treatment needed:

No further information available

5. Fire Fighting Measures:

5.1 Extinguishing Media

Mixture is not classed as flammable. Use dry chemical, foam or water spray as appropriate for surrounding materials. Contain any material used in fire fighting.

5.2 Special hazards arising from the substance or mixture.

Products of combustion are nitrogen oxides (NO, NO₂). Prevent entry of the product or contaminated water into watercourses, ditches or drains by bunding the area with sand or earth if possible.

5.3 Advice for fire-fighters:

Suitable protective clothing and breathing apparatus.

6. Accidental Release Measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Wear suitable protective clothing (See section 8). Remove contaminated clothing immediately. DO NOT eat, drink or smoke. Keep bystanders away.

6.2 Environmental precautions:

DO NOT wash excessive spillages into water courses. If this product enters water course or sewer

(including via contaminated soil and vegetation), contact local agency and/or police immediately.

6.3 Methods and material for containment and cleaning up:

Sweep carefully into suitable container for re-use or dispose at an approved site. Small spillages should be washed thoroughly with water.

6.4 Reference to other sections:

Reference section 8 for information on PPE

7. Handling and storage:

7.1 Precautions for safe handling:

Keep away from heat, sparks and flame. Open container with care to avoid generating dust.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry atmosphere in original, labelled containers. DO NOT store in metal or alloy packaging. Separate from acids, alkalis, reducing agents and combustibles. No storage quantity limits.

7.3 Specific end use(s):

No further information available

8. Exposure controls/personal protection:

8.1 Control Parameters

No parameters specified

8.2 Exposure Controls

Primary Hazard considered handling as concentrate.

Gloves: BS EN374 – chemical protection : physical barrier protection only.

Eye protection: goggles/face shield to BS EN166

Wear suitable face mask if excessive dust is generate and natural or mechanical ventilation is not adequate.

9. Physical and Chemical Properties:

9.01 Appearance:

A free-flowing powder

9.02 Odour:

Virtually Odourless

9.03 pH:

Information not available

9.04 Boiling Point / Range

Information not available

9.05 Flash Point / Flammability:

Not classed as flammable

9.06 Explosive Properties:

Not classified as explosive

9.07 Oxidising Properties:

Not classified as oxidising

9.08 Vapour Pressure:

Information not available

9.09 Relative Density:

Information not available

9.10 Solubility:	Readily soluble
9.11 Partition Coefficient:	Information not available
9.12 Viscosity:	Information not available
9.13 Vapour Density:	Information not available
9.14 Evaporation Rate:	Information not available
9.2 Other Information No other relevant information available	
10. Stability and Reactivity:	
10.1 Reactivity: Not known.	
10.2 Chemical Stability: Stable under normal conditions.	
10.3 Possibility of hazardous reactions: None known.	
10.4 Conditions to avoid Extremes of temperature. DO NOT allow to freeze – store above 5°C. Keep dry	
10.5 Incompatible materials Acids, alkalis, reducing agents and combustibles	
10.6 Hazardous decomposition products If involved in a fire, oxides of nitrogen will be evolved	
11. Toxicological Information:	
11.1 Information on toxicological effects:	
Acute Oral LD₅₀:	>2000mg/kg.bw (calculated)
Acute Dermal LD₅₀:	>4000mg/kg.bw (calculated)
12. Ecological Information	
12.1 Toxicity: Not classified as harmful to the environment in accordance with the CHIP regulations 2009 and 1999/45/EC.	
12.2 Persistence and Degradability: Components are bio-degradable	
12.3 Bioaccumulative potential: This mixture is unlikely to bio accumulate	

12.4 Mobility in soil:

Information not available

12.5 Results of PBT and vPvB assessment:

Information not available

12.6 Other adverse effects:

Information not available

13. Disposal Considerations:**13.1 Waste treatment methods:****Disposal of Used Preparation:**

Dispose in accordance with local regulations via specialised waste contractor.

Disposal of Packaging:

An empty container can contain product residue and should not be re-used. Use specialist waste contractor in accordance with local regulations. DO NOT re-use containers for any purpose

14. Transport Information:**Road and Rail/Sea/Air**

Information not required as mixture not regulated for carriage.

UN number:

UN proper shipping name:

Transport hazard class(es):

Packing group:

Environmental hazards:

Special precautions for user:

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

15. Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

This mixture is classified and labelled in accordance with Directive 1999/45/EC, Regulation 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EU fertiliser regulations 2003/GB fertiliser regulations 1991.

15.2 Chemical Safety Assessment:

CSA not undertaken for this mixture.

16. Other Information

The above information is intended to give health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the product, for which purpose the product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Reason For Update:

MSDS has been re-written to reflect the new format given in Annex I of the REACH regulation 453/2010

Headland are registered trademarks of Headland Agrochemicals

Solufeed is a registered trademark of Solufeed Ltd.

Harpin is a registered trademark of Plant Health Care Inc.

End of Safety Data Sheet