



PRODUCT SAFETY DATA SHEET

RELAY TURF

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

1.1 Product identifier:

HEADLAND RELAY TURF
MAPP 08935

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

A herbicide for amenity horticulture and managed 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;

Classification according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation)

Xn, R20/21/22 R36/38

2.2 Label elements:

HEADLAND RELAY TURF
MAPP 08935
Contains: CMPP-P, MCPA and Dicamba



HARMFUL

Risk Phrases:

R20/21/R22: Harmful in contact with skin by inhalation and if swallowed
R36/38: Irritating to skin and eyes

Safety Phrases:

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/39: Wear suitable protective clothing and eye/face protection

2.3 Other hazards:

None Known

3: Composition/information on ingredients:

3.2 Mixtures

Hazardous Components	CAS-No./	Concentration	Classification
CMPP-P	16484-77-8	200g/l	Xn, Xi; R20/22, R38, R41
MCPA	2039-46-5	200g/l	Xn, Xi; R20/22, R41
Dicamba	10007-85-9	25g/l	Xn, Xi; R20/22, R41
PCOC	1570-64-5	<2g/l	T+, C; R26/27/28, 35

The full text for all R-Phrases if not displayed in section 2 or 3 are displayed in Section 16.

4. First Aid Measures:

4.1 Description of first aid measures:

Eyes:	Irrigate gently with clean water for at least 15 minutes. Remove contact lenses if present and easy to do so after 5 minutes. Obtain immediate medical attention preferably from an ophthalmologist.
Skin:	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if any irritation or redness persists or develops later.
Ingestion:	Do NOT induce vomiting. Obtain immediate medical attention /send to hospital immediately. The decision whether to induce vomiting or not should be made by attending doctor
Inhalation:	Remove from source of exposure into fresh air. If unconscious, secure airway and place in recovery position. If heart beat is absent, give external cardiac compression. If there is coughing or difficulty breathing, keep at rest in a position of maximum comfort. If there is cyanosis (blueness of lips) administer oxygen by facemask. Send to a hospital without delay.

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

Use dry chemical, foam, water spray, carbon dioxide, sand or earth. Contain any material used in fire fighting. Keep contains cool by spraying with water.

5.2 Special hazards arising from the substance or mixture

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Keep containers cool by spraying with water. Contain run-off to prevent entry into water or drainage systems.

5.3 Advice for fire-fighters:

Suitable protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Wear appropriate safety clothing and eye/face protection

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. DO NOT burn.

6.3 Methods and material for containment and cleaning up:

Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. Flush the area with plenty of water when all the spillage has been removed. If further assistance is required, telephone the emergency contact number.

6.4 Reference to other sections:

No reference

7. Handling and storage:**7.1 Precautions for safe handling:**

Use good personal hygiene. DO NOT consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place in the original, labelled containers. Keep away from food, drink and animal feeding stuffs. Keep away from children. Refer to manufacturer for maximum safe stacking height.

Protect from extremes of temperature

7.3 Specific end use(s):

No further information available

8. Exposure controls/personal protection:**8.1 Control Parameters**

Exposure Limit values: No Information Available

8.2 Exposure Controls

Ensure adequate general/ or local exhaust ventilation to control airborne levels below the exposure guidelines

Wear coveralls, suitable protective gloves and face shield to BS2092 when handling the concentrated product or contaminated surfaces and dealing with spillages. Avoid breathing the spray mist when using. Decontaminate all personal protective clothing thoroughly after use especially the insides of gloves.

9. Physical and Chemical Properties:

9.01 Appearance:	A clear brown liquid
9.02 Odour:	Characteristic, phenolic
9.03 pH:	9-11
9.04 Boiling Point / Range	>100°C
9.05 Flash Point / Flammability:	Not applicable
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:	Specific gravity – 1.245 to 1.275
9.10 Solubility:	Completely soluble in water
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:

May react with strong acids, bases and oxidising agents

10.2 Chemical Stability:

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions:

None known.

10.4 Conditions to avoid

Avoid contact with acids. May corrode aluminium zinc

10.5 Incompatible materials

Strong acids, bases and oxidising agents

10.6 Hazardous decomposition products

Decomposition may generate oxides of carbon and nitrogen and hydrogen chloride.

11. Toxicological Information:

11.1 Information on toxicological effects:

Acute Oral LD50:	>847 mg/kg.bw (rat)
Acute Dermal LD50:	>1570 mg/kg.bw (rat)
Inhalation LC50:	>4.8mg/l for 4 hours (rat).
Irritancy:	Irritating to skin and eyes

Not carcinogenic. Not mutagenic. Not toxic for reproduction

12. Ecological Information

12.1 Toxicity:

Harmful to fish or other aquatic life

Harmful to fish or other aquatic life.

LC50 (96 hour): Rainbow trout	240-750mg/l
Carp	>240mg/l
Bluegill	>135mg/l

12.2 Persistence and Degradability:

Information not available.

12.3 Bioaccumulative potential:

Information not available

12.4 Mobility in soil:

DO NOT contaminate surface water or ditches with chemical or used containers

12.5 Results of PBT and vPvB assessment:

Mixture not assessed

12.6 Other adverse effects:

No other adverse effects known

13. Disposal Considerations:

13.1 Waste treatment methods:

Disposal of Used Mixture:

Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.

Disposal of Packaging:

Do Not re-use containers for any purpose. Use specialist waste contractor in accordance with local regulations.

14. Transport Information:

Road and Rail Air and Sea

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:

Applicable for Maritime bulk transport only. Check with carrier.

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 and the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations.

15.2 Chemical Safety Assessment:

CSA not undertaken for this mixture.

16. Other Information

Full texts of Risk phrases if not displayed Sections 2.0 and 3.0.

R26: Very toxic by inhalation

R27: very toxic in contact with skin

R28: Very toxic if swallowed

R35: Causes severe burns

R41: risk of serious damage to eyes

Please note that these R phrases are assigned to individual ingredient but not carried to the final classification of the mixture.

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:

2010 MSDS has been re-written to reflect the new format given in Annex I of the REACH regulation 453/2010 and update the information as given by the manufacturer.

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End of Safety Data Sheet