



**PRODUCT SAFETY DATA SHEET**

**HEADLAND STAFF  
MAPP 13196**

A herbicide for use in agriculture and amenity turf

**1. Marketed by:**

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**2. Composition:**

| Ingredient      | CAS no.  | Concentration | Classification | Risk Phrases   |
|-----------------|----------|---------------|----------------|----------------|
| 2,4-D           | 94-75-7  | 500g/l        | Xn, Xi         | R20/22, R36    |
| Dichloro-Phenol | 120-83-2 | <2g/l         | T+, C          | R26/27/28, R35 |

**3. Hazards:**

**3.1 Classification of Preparation:**



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

**3.2 Primary Hazards**

Harmful if swallowed. Risk of serious damage to eyes. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### 4. First Aid Measures:

|                        |   |
|------------------------|---|
| <b>4.1 Eyes:</b>       | Irrigate gently with clean water for at least 15 minutes. Send to hospital without delay.   |
| <b>4.2 Skin:</b>       | Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention if any irritation or redness persists.  |
| <b>4.3 Ingestion:</b>  | Check breathing and heartbeat and give cardiac massage / artificial respiration if necessary. If conscious, give plenty of water to drink. Keep patient at rest and obtain medical attention / send to hospital immediately. DO NOT induce vomiting.  |
| <b>4.4 Inhalation:</b> | Remove from source of exposure into fresh air. If unconscious, secure airway and place in recovery position. If heartbeat 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 hospital without delay. |

#### 5. Fire Fighting Measures

##### 5.1 Suitable Extinguishing Media

The product will not burn. Use dry chemical, foam, water spray, carbon dioxide, sand or earth. Use water spray to cool drums exposed to fire.

##### 5.2 Unsuitable Extinguishing Media

As appropriate for surrounding fire

##### 5.3 Special Hazards, Combustion or By-Products

If involved in a fire, decomposition fumes will be toxic. Prevent entry of the product or firefighting water into watercourses, ditches or drains by bunding the area with sand or earth if possible.

##### 5.4 Protective Clothing for Fire Fighting

Suitable protective clothing and breathing apparatus.

## **6. Accidental Release (Spillage)**

### **6.1 Personal Precautions**

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

### **6.2 Environmental Precautions**

Prevent entry of the product or contaminated water into watercourses, sewers or drains. Inform the proper authorities if gross contamination of water is threatened or occurs.

### **6.3 Clean & Disposal Methods**

Recover gross spillage by pumping using an explosion proof pump or absorb small quantities onto a suitable absorbent (sand or earth). Transfer to a labelled container for later removal to a safe place for disposal. Flush the area with plenty of water when all the spillage has been removed.

## **7. Storage and Handling**

### **7.1 Practical Precautions and Engineering Controls for Safe Handling**

Avoid contact with skin, eyes or clothing. Avoid breathing vapours.

### **7.2 Conditions and Quantity Limits for Safe Storage**

Keep in original container, tightly closed. Keep cool and dry in a suitable agricultural chemical store under lock and key. Keep away from food, drink and animal feeding stuffs and out of reach of children.

## **8. Personal Protection**

### **8.1 Exposure Limit Values**

None known

### **8.2 Occupational Exposure Controls**

Decontaminate all personal protective clothing after use.

### **8.3 Personal Protective Equipment**

Wear coveralls, suitable protective gloves and face-shield to BS2092 when handling the concentrated product or contaminated surfaces and dealing with spillages. Wear suitable respiratory equipment in cases of insufficient ventilation. Avoid breathing the spray mist when using.

## 9. Physical and Chemical Properties

|   |                                   |
|---|-----------------------------------|
| <b>9.01 Appearance:</b>                 | A clear, dark-brown liquid        |
| <b>9.02 Odour:</b>                      | Characteristic, fishy amine odour |
| <b>9.03 pH:</b>                         | 7.5 – 9.5                         |
| <b>9.04 Boiling Point / Range</b>       | >100°C                            |
| <b>9.05 Flash Point / Flammability:</b> | Not applicable                    |
| <b>9.06 Explosive Properties:</b>       | Not classified as explosive       |
| <b>9.07 Oxidising Properties:</b>       | Not classified as oxidising       |
| <b>9.08 Vapour Pressure:</b>            | Negligible                        |
| <b>9.09 Relative Density:</b>           | Specific gravity: 1.12 – 1.15     |
| <b>9.10 Solubility:</b>                 | Completely miscible in water      |
| <b>9.11 Partition Coefficient:</b>      | Not applicable                    |
| <b>9.12 Viscosity:</b>                  | Not applicable                    |
| <b>9.13 Vapour Density:</b>             | Not applicable                    |
| <b>9.14 Evaporation Rate:</b>           | Not applicable                    |

## 10. Stability and Reactivity

### 10.1 Materials to Avoid:

Avoid contact with strong acids and oxidising agents. May corrode aluminium and zinc.

### 10.2 Conditions to avoid:

None known.

### 10.3 Hazardous Decomposition Products:

May generate oxides of carbon and nitrogen and hydrogen chloride if heated to decomposition.

## 11. Toxicological Information

|                           |                                |
|---------------------------|--------------------------------|
| <b>Acute Oral LD50:</b>   | 949mg/kg.bw (rat)              |
| <b>Acute Dermal LD50:</b> | >2000mg/kg.bw (rat)            |
| <b>Inhalation LC50:</b>   | No data                        |
| <b>Irritancy:</b>         | Risk of serious damage to eyes |

## 12. Environmental Protection

### 12.1 Ecotoxicity:

Harmful to fish or other aquatic life and dangerous to higher aquatic plants. DO NOT contaminate surface waters or ditches with chemical or used container.

LC50 (96 hour):                      Rainbow Trout                      240mg/l

### 12.2 Mobility:

Not specified.

### 12.3 Persistence and Degradability:

Rapidly degraded in soils ( $t_{50} < 7$  days).

### 12.4 Bio-accumulative Potential:

Low bio-accumulation potential.

## 13. Disposal of Unwanted Product and Used Containers

### 13.1 Disposal of Used Preparation:

Consult the local authorities before disposing of unwanted chemical. It is recommended that the chemical is mixed with a combustible solvent and burned in a chemical incinerator equipped with an afterburner and scrubber.



### 13.2 Disposal of Packaging:

Dispose of containers by burning or as permitted by local authorities. DO NOT re-use containers for any purpose.

#### 14. Transport Information

|                              |  |
|------------------------------|--|
| <b>Road Transport Class:</b> | Environmentally hazardous liquid   |
| <b>UN Number:</b>            | 3082   |
| <b>Proper Shipping Name:</b> | Environmentally hazardous substances, liquid, N.O.N. (Contains 2,4-D 500g/l) |
| <b>UN Class</b>              | 9  |
| <b>CPL Packing Group:</b>    | III  |
| <b>ADR/RID Description:</b>  | Marine pollutant   |
| <b>IMDG Class:</b>           | 9  |

#### 15. Regulatory Information

|                        |   |  |
|------------------------|---|--|
| <b>Risk Phrases:</b>   |  <b>HARMFUL IRRITANT</b> |  <b>DANGEROUS FOR THE ENVIRONMENT</b> |
| <b>R22:</b>            | Harmful if swallowed  |  |
| <b>R43:</b>            | May cause sensitisation by skin contact   |  |
| <b>R50/53:</b>         | Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.          |  |
| <b>Safety Phrases:</b> |   |  |
| <b>S2:</b>             | Keep out of reach of children   |  |
| <b>S26:</b>            | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice              |  |
| <b>S35:</b>            | This material and its container must be disposed of in a safe way   |  |
| <b>S39:</b>            | Wear eye/face protection  |  |
| <b>S57:</b>            | Use appropriate containment to avoid environmental contamination  |  |

## 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.

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