**Environmental Information Sheet**

**HEROLD®**
MAPP 16195

A suspension concentrate formulation containing 400 g/L flufenacet (oxyacetamide herbicide) and 200 g/L diflufenican (nicotinanilide herbicide). A contact and residual herbicide for pre and post-crop emergence use against a range of broad-leaved weeds and annual meadow-grass in winter wheat and winter barley.

**Maximum application rate:** 0.3 L/ha product  
**Maximum total dose:** 0.6 L/ha product  
**Latest time of application:** Before 31st March in the year of harvest and for winter wheat before third tiller stage (GS23), for winter barley before fourth tiller stage (GS24).

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| 1. **WILDLIFE** | Herold is not classified as “Harmful to game, wild birds and animals”.

- No risk management is necessary to protect mammals and birds.
- Herold is of moderate toxicity to mammals and birds. The risk to wild mammals and birds grazing on treated areas is low, as is the risk due to exposure from other routes, e.g. consumption of earthworms or other invertebrates such as insects. |
| 2. **BEES** | The active substances within Herold are of low toxicity to bees.

- No risk management necessary and there is no requirement to avoid application of the product when bees may be foraging on flowering weeds. |
| 3. **NON TARGET INSECTS AND OTHER ARTHROPODS** | No risk management necessary.

- Herold poses a low risk to in-field, non-target arthropods when applied according to the label recommendations. |
| 4. **AQUATIC LIFE** | Herold is classified as “Very toxic to aquatic life with long lasting effects”.

- Herold is extremely toxic to aquatic plants and algae and so care must be taken to ensure that surface waters or ditches are not contaminated with the product or the used container.

- Risk management is essential. Herold can be used safely providing care is taken to prevent spray drift reaching surface water. The following risk management practices must be carried out in order to ensure that there is adequate protection for aquatic species:

  - *Do not allow direct spray from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing water-body, unless a Local Environmental Risk Assessment For Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application. Aim spray away from water.*

- LERAP Category B. Buffer zone may be reduced (see LERAP Guidelines).
### 5. SOIL and GROUND-WATER

| Earthworms  | Flufenacet is moderately persistent in soil but of low to moderate mobility. Diflufenican is very persistent but of low mobility. Field investigations have shown that use of Herold, according to the label, presents a low risk to groundwater. No risk management necessary. When used according to the label, Herold poses no unacceptable risk to earthworms. Herold is of low risk to soil micro-organisms when used according to the label. No risk management is necessary to prevent risks to the processes of soil respiration and nitrogen turnover. |
| Soilmicroorganisms |

### 6. NON-TARGET PLANTS

Herold is a herbicide and is likely to be harmful to some species of wild flowers that are found at the margins of fields. Therefore particular care should always be taken to minimise drift when applying Herold close to conservation headlands and field boundaries, such as hedgerows, which may provide an important habitat for wild flowers. Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

**USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE. FOR FURTHER PRODUCT INFORMATION INCLUDING WARNING PHRASES AND SYMBOLS REFER TO THE ADAMA AGRICULTURAL SOLUTIONS UK LTD WEBSITE (WWW.ADAMA.COM).**

Care must be taken to minimise the risk of surface water contamination from farmyard and field sources.

For further information about the environmental profile of this product contact:-

Adama Agricultural Solutions UK Ltd  
Unit 15  
Thatcham Business Village  
Colthrop Way  
Thatcham  
Berkshire  
RG19 4LW  
Tel: 01635 860555  
Technical Helpline: 01635 876622  
Email: ukenquiries@adama.com

This Environmental Information Sheet was prepared in accordance with CPA Guidance notes Version 4.

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