

# Weed treatment in irrigation supply channels

## Magnacide H

Aquatic weeds cause problems by blocking the flow of water in irrigation channels. Weeds reduce delivery capacity, clog pumps, and prevent us from providing an efficient service to our customers. One of the ways for us to deal with weeds growing in supply channels is to treat them with a herbicide called Magnacide H.

### What is Magnacide H?

Magnacide H is a contact herbicide used to control submersed and floating weeds, as well as algae, in irrigation channels. Magnacide H is a restricted chemical product, used extensively worldwide to control weed growth in irrigation channels.

### Why did MI decide to use this herbicide?

Magnacide H is the only herbicide approved by the Australian Pesticides and Veterinary Medicines Authority (APVMA) to treat weeds in irrigation channels.

### When do you treat channels with herbicide?

When required, the herbicide is added into channels by AQF3 qualified and licensed operators. This is usually in late Spring to early Summer to limit weed growth before our peak summer delivery period.

### Will customers and the community be notified of the treatment?

Yes, each time Magnacide H is used, MI will:

- Advise customers through the MI Newsletter,
- Place a notice, including a location map, on the MI website, and
- Write to customers whose properties adjoin the section of channel we will be treating.

### How is the herbicide used in the channels?

The section of the channel where the herbicide is added is blocked off. During the process MI will not release any water from this section for 72 hours after application. We monitor the Magnacide H levels as they dissipate, to ensure that the treated

water returns to normal.

### How does MI ensure that no herbicide reaches waterways?

We close off all spur channels and place them in a locked mode to prevent them from being operated automatically until the process is finished.

### What action will MI take to prevent spillage?

The Magnacide H cylinder is fitted with safety valves and the herbicide can only be removed by pumping in a propellant.

This herbicide is transported in specially equipped vehicles. It is highly unlikely a spill will occur, but if it does, we carry spill containment equipment and soda ash to absorb it.

### How does Magnacide H work?

Magnacide H, with the active ingredient Acrolein, is a general biocide that attacks and alters the cell structure of plants reliant on dissolved oxygen in water. Magnacide H treatment is used for submersed aquatic weeds such as pondweed and ribbon weed.

### Will Magnacide H kill fish?

Magnacide H is toxic to fish and crustaceans. We expect that all fish in the channels where we use Magnacide H will die. We have learned from previous use that nearly all killed fish are European Carp. MI will remove fish killed in the process. MI staff will patrol the channel to collect fish remains for one week after the channel has been treated.

### What are the likely effects on humans if they come into direct contact with the herbicide?

When used correctly, Magnacide H does not have any long-term effects on people or the environment. To minimise any risk, MI recommends that during the process:

- Don't come in contact with channel water
- Don't swim in channels (any time!)
- If you need to work next to, or near channels, do so before the process or wait until afterwards, or if this is not possible contact MI for further information, and
- Seek medical advice if contact occurs.



## Is it likely to affect stock if they drink or enter treated water?

At the concentration levels we use it is highly unlikely that stock, or animals such as pets, will suffer any effects, but as a precaution, we recommend you do not use channel water for domestic and stock use until 72 hours after the start of the process. If your animals show signs of distress, contact your veterinary clinic straight away.

## What do I do if anyone swallows treated water from channels?

Do not induce vomiting. Call the NSW Poisons Information Centre on **13 11 26** for advice.

## Is it safe to use treated water for irrigation?

Yes, it is safe to use the water for irrigation. MI recommends you advise your Division Operator if you plan to use irrigation water during an advised treatment period.