

**PRESSURE:** Spray at a minimum of 3 bars.

**Timing:** Apply when natural senescence is commencing in the crop to be treated.

**Weed Control:** GOZAI will have a strong desiccant effect on many broad-leaved weed species present in the crop at application. It will not have any effects on grass weeds.

**Compatibility:** GOZAI applied at 0.8 L/ha plus a minimum rate of 1.5 L/ha of a methylated vegetable oil such as TOIL, may be tank mixed with Ranman Top (MAPP 14753; PCS 04497) applied at 0.5 L/ha.

**Harvest:** Crops treated with GOZAI should be harvested when the haulm is totally dead and the potato tubers have set and have firm skins.

**Succeeding Crops:** After harvest treated land should be disced or cultivated and then ploughed to a minimum depth of 20 cms.

**Winter cereal crops** can be drilled following the above cultivation and ploughing.

**Crop safety** to broad-leaved crops sown after the use of GOZAI as a potato desiccant has not been established. Sowing crops not specifically listed may lead to crop damage and/or yield effects.

Avoid overlapping spray swaths.

## MIXING AND SPRAYING

**Mixing:** Half fill the spray tank with clean water and start the agitation. Pour in the required amount of GOZAI and agitate. Add the required amount of TOIL. Add the remainder of the water whilst agitating and continue agitation until spraying is completed.

**Spraying:** Apply as a MEDIUM quality spray as defined by the BCPC International Spray Classification System.

Avoid overlapping spray swaths.

**Drift:** Take extreme care to avoid spray drift onto broadleaved crops or plants outside the target area. GOZAI will have adverse effects on broadleaved crops, fruit and glasshouse crops.

**Do not spray near any open water such as rivers, lakes and water filled ditches.** Drift onto open water of GOZAI will have deleterious effects on aquatic plants.

**After Use:** Wash equipment thoroughly immediately after use. Fill the tank with clean water plus wetter and flush out. Refill with water and spray out before storage or using other products. Traces of GOZAI may cause damage to susceptible crops sprayed later.

**Company Advisory Information:** All goods supplied are manufactured to our usual standard of quality, but all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of the goods are excluded and no liability (save as to the liability to replace defective goods herein provided) will be accepted by us for any damage, loss or injury whatsoever arising out of, or in connection with, the goods or drums or other containers thereof, of from the storage, handling, applications or use thereof. In the case of alleged defects in the manufacture of the goods proved by the customer to our satisfaction we will, at our expense, replace or otherwise remedy the defective goods. In particular liability in tort arising in or out of the manufacture, distribution, sale or use of the product is hereby expressly excluded. All our goods are sold and supplied on the terms contained in our standard Conditions of Sale (of which the above is part) which shall prevail over any other terms and which may be inspected on request.

For Safety Data sheet relating to this product please contact your supplier Nichino Europe

[www.nichino-europe.com](http://www.nichino-europe.com)

 **NICHINO**

**MAPP No: 21219**

**An agricultural herbicide for the control of weeds in potatoes and the destruction of potato haulm.**



 **GOZAI**  
HERBICIDE

**FOR PROFESSIONAL USE ONLY | PROTECT FROM FROST**

An emulsifiable concentrate (EC) formulation containing 26.5 g/L pyraflufen-ethyl.

**UFI: E1T4-F5YH-V200-M5H0**

- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye damage.
- Harmful if inhaled.
- Very toxic to aquatic life with long lasting effects.

Wear protective gloves / protective clothing / eye protection / face protection.

**IF SWALLOWED:** Immediately call a POISON CENTRE or doctor/physician.

**IF ON SKIN:** Wash with soap and water.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

Immediately call a POISON CENTRE or doctor / physician.

Call a POISON CENTRE or doctor / physician if you feel unwell.

Do NOT induce vomiting.



 **NICHINO**

**EMERGENCY NUMBER  
01235 239670**

## SAFETY PRECAUTIONS

### Operator Protection

Engineering control of operator exposure must be used where reasonable practicable in addition to the following personal protective equipment:

- WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection. (UK only)

- AVOID CONTACT WITH SKIN and EYES.
- WHEN USING DO NOT EAT, DRINK OR SMOKE.
- WASH CONCENTRATE from skin or eyes immediately.
- WASH HANDS AND EXPOSED SKIN before meals and after work.
- IF YOU FEEL UNWELL seek medical advice immediately (show label where possible).

### Environmental Protection

- To protect aquatic organisms, respect an unsprayed buffer zone distance to surface water bodies in line with LERAP requirements. (UK only)

- DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from the water. (UK only)

- This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years. (UK only)

- To protect aquatic organisms, respect a 5m buffer zone from surface water bodies (IE)

- Do not contaminate water with the product or its container. (Do not clean application equipment near surface water/Avoid contamination from farmyards and roads).

- THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

### Storage and Disposal

- KEEP OUT OF REACH OF CHILDREN.
- KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
- KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.
- WASH OUT CONTAINER THOROUGHLY and dispose of safely.
- Non-returnable containers must not be re-used for any purpose.
- Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple-rinsed empty containers which can be disposed of as non-hazardous waste.
- PROTECT FROM FROST.

### DIRECTIONS FOR USE

**IMPORTANT:** This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

### GENERAL INFORMATION

GOZAI controls annual broad-leaved weeds mainly by contact after uptake by the leaf and other aerial parts of the plant. GOZAI can be used for weed control in potato. GOZAI is activated by strong sunlight and normal temperature. Application is therefore best made during the day and part of the day.

### CROP SPECIFIC INFORMATION

**FOR USE AS A POST EMERGENCE HERBICIDE IN POTATOES** Rate of Use: 0.4 L/ha of GOZAI plus 1.0 L/ha of TOIL adjuvant. Volume: A minimum of 200 L/ha of water.

Pressure: Spray at a minimum of 100 bar.

### Weed Control

The following broad-leaved weeds are susceptible to GOZAI, when applied early post-emergence:

Weed	Growth stage	Susceptibility
Amaranth, common	Cots - 2ETL	Susceptible
Annual mercury	Cots - 3ETL	Susceptible
Black nightshade	Cots - 2ETL	Susceptible
Cleavers	Cots - 1 week	Susceptible
Common groundsel	Cots - 2ETL	Susceptible
Fat hen	Cots - 2ETL	Susceptible
Field bindweed	Cots - 4ETL	Susceptible
Field pansy	Cots - 2ETL	Susceptible
Knockdown	Cots - 2ETL	Susceptible
Leekshank	Cots - 2ETL	Susceptible
Smooth mayweed	Cots - 4ETL	Susceptible
Shepherd's purse	Cots - 2ETL	Susceptible
Volunteer oilseed	Cots - 6ETL	Susceptible

Optimal control will be achieved with an application made when weeds are between the cotyledon and 2-4 expanded leaf stage. Weeds emerging after application will not be controlled. Treatment may cause burn off of emerged potato shoots within 4-10 days. Subsequent crop growth and yield are normally unaffected.

Soil Type : Any soil type

### Latest Timing

First Earlies – applied from pre-crop emergence up to before 5% crop emergence.

Second Earlies and Maincrops – applied from pre-crop emergence up to before 10% crop emergence.

Potatoes should be less than 10 cm high.

### POTATO HAULM DESICCATION

GOZAI is a contact defoliant for use as a haulm desiccant in potatoes. It can be used on all main crop potato varieties which are normally desiccated.

Only apply GOZAI to potatoes that have reached the onset of natural senescence.

For effective desiccation GOZAI must always be tank mixed with a methylated vegetable oil such as TOIL (A0907 (UK); 01353 (IE)), Phase II (A0622 (UK); 92147 (IE) or Spraymate (A0621 (UK)) at a minimum rate of use of 1.5 L/ha of adjuvant.

Under warm dry conditions and where crops are rapidly senescing one application of GOZAI may be sufficient to destroy potato haulm. In practice it is normally necessary to make two applications in order to completely desiccate the potato haulm stems.

Where potatoes have been flailed, one following application of GOZAI should be adequate to achieve complete haulm desiccation.

On seed crops GOZAI should be applied at 0.8 L/ha following flailing, with the crops at the onset of natural senescence and applied once the flailed haulm is clear of the stems that remain.

Rate of Use: 0.8 L/ha of GOZAI plus 1.5 L/ha of TOIL adjuvant. Up to 2 applications per crop.

The minimum interval between applications should be not less than 7 days.

The minimum interval between application and harvest for sale or use should be 14 days.

Volume: Apply GOZAI in a minimum of 200 L/ha of water.

When dealing with dense haulm increase the volume of spray up to 400 L/ha.