



AGRISOURCE

INSECTICIDE

Capra[®]

**For control of diamondback moth and cabbage
white butterfly in vegetable brassicas and
soybean looper in lettuce and potato tuber
moth in potatoes**

Contains 150 g/L indoxacarb in the form of a suspension concentrate

WARNING // ECOTOXIC

Keep out of the reach of children

Net Contents **10 LITRES**

GROUP

22A

INSECTICIDE



agrisource.co.nz

FREE RECYCLING

AGRECOVERY
www.agrecovery.co.nz

GENERAL INFORMATION

Capra is an oxadiazine insecticide in the form of an emulsifiable concentrate. **Capra** insecticide is to be mixed in water and applied as a foliar spray for control of diamondback moth and cabbage white butterfly in vegetable brassicas, soybean looper in outdoor lettuce and potato tuber moth in potatoes. **Capra** insecticide should be applied after careful field monitoring of pest populations of eggs and larvae to determine the need for application, the correct timing of the initial application and of any subsequent applications.

Capra insecticide has been specifically designed for use in Integrated Pest Management programs. The active ingredient, indoxacarb enters larvae primarily by ingestion of treated foliage, or through penetration of the insect cuticle. After ingesting indoxacarb, the larvae cease feeding and die three to five days later. **Capra** insecticide does not give traditional larval "knockdown" control.

IMPORTANT - RESISTANCE MANAGEMENT

Capra insecticide contains indoxacarb, a **GROUP 22A INSECTICIDE**. Unless directed otherwise in the specific crop/insect sections of the label, the following practices are recommended to prevent or delay the development of insecticide resistance to **Capra** insecticide and to Group 22A insecticides.

- Apply **Capra** insecticide or other Group 22A insecticides using a "window" approach to avoid exposure of consecutive insect pest generations to the same mode of action. Multiple successive applications of **Capra** insecticide are acceptable if they are used to treat a single insect generation.
- Following a "window" of **Capra** insecticide or other Group 22A insecticide, rotate to a "window" of applications of effective insecticides with a different mode of action. The total exposure period of all "Group 22A-active windows" applied throughout the crop cycle (from seedling to harvest) should not exceed 50% of the crop cycle.
- Incorporate IPM techniques into the overall pest management program.
- Monitor insect populations for loss of field efficacy.

Capra insecticide may be subject to alternative resistance management strategies, refer to <http://resistance.nzpps.org> for specific pest strategies.

If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local farm chemical supplier, consultant, or local Agri Solutions Ltd representative for the best alternate method of control for your area.

Since the occurrence of resistant individuals is difficult to detect prior to use Agri Solutions Ltd accepts no liability for any losses that may result from the failure of **Capra** insecticide to control resistant insects. For additional information on insect resistance, modes of action and monitoring visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org>.

COMPATIBILITY

Capra insecticide is compatible with many commonly used fungicides, liquid fertilisers, herbicides, insecticides, and biological control products. However, since the formulations of products are always changing, it is advisable to test the physical compatibility of desired tank mixes and check for adverse effects like settling out or flocculation. To determine the physical compatibility, add the recommended proportions of the tank mix products to water, mix thoroughly and allow to stand for 20 minutes. If the combination remains mixed, or can be re-mixed readily, it is considered physically compatible. Avoid complex tank mixtures of several products or very concentrated spray mixtures. The crop safety of all potential tank-mixes, including additives and other pesticides, on all crops has not been tested. Before applying any tank-mixture not specifically recommended on this label or other Agri Solutions Ltd supplemental labelling, the safety to the target crop must be confirmed. To test for crop safety, apply the combination to a small area of the target crop in accordance with the label instructions to ensure that a phytotoxic response will not occur.

The mixing sequence recommended is: water-soluble bags, water-soluble granules, dry flowable or water-dispersible granules, wettable powders, water-based suspension concentrates, water-soluble concentrates, suspo-emulsions, oil-based suspension concentrates, emulsifiable concentrates (e.g. **Capra** insecticide), adjuvants and surfactants, soluble fertilisers and drift retardants.

It is an offence to use this product on animals.

DIRECTIONS FOR USE

Spray Drift

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

APPLICATION

Ground Application

Use enough water to ensure thorough coverage of the crop. Adjust water volumes to crop stage (200 – 800 L/ha).

Application equipment should be calibrated to apply at least sixty (60) droplets per cm² of target foliage. Droplet VMD should be of medium spray quality.

Use a boom sprayer fitted with high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size, DOES NOT improve canopy penetration and may increase drift potential. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE. Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. When applying **Capra** insecticide by ground application, keep the boom low to avoid spray drift.

Minimising Spray Drift

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator must consider all these factors when making application decisions. The most effective way to reduce drift potential and maintain efficacy is to apply a volume mean diameter (VMD) 285 - 300 microns.

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour at the application site.

DO NOT apply by air.

Spray Equipment Cleanout

Prior to application, start with clean, well-maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove. Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom, and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. DO NOT clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

RESTRICTED ENTRY INTERVAL (REI)

DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow length chemical resistant gloves. Clothing must be washed after each day's use.

Cabbage, Cauliflower, Broccoli, Brussels Sprouts 12 days
Head Lettuce 5 days
Potatoes do not re-enter until spray has dried

DO NOT apply if rain is expected within 2 hours of application, or if heavy dew is present on crops.

CROP	PEST	RATE	CRITICAL COMMENTS
Cabbage Cauliflower Broccoli Brussels Sprouts	Diamond Back Moth (<i>plutella xylostella</i>) Cabbage White Butterfly (<i>pieris rapae</i>)	500 ml/ha	Apply at the first sign of insect presence and repeat at 7 - 14-day intervals. Alternatively monitor insect populations and apply when economic thresholds are reached. Resistance management: DO NOT apply more than 2 sequential applications, and / or more than 4 applications in any one crop.
Head Lettuce (outdoors)	Soybean Looper (<i>thysanoplusia orichalcea</i>)		Apply at 7 – 14-day intervals or on monitoring thresholds. Resistance management: DO NOT apply more than 2 sequential applications, and/or more than 4 applications in any one crop.
Potatoes	Potato Tuber Moth (<i>Phthorimaea operculella</i>)	400 mL/ha + non-ionic surfactant	Apply at first sightings of moths or first appearance of foliage mining and repeat at 7 - 15 day intervals. Crop monitoring / scouting is recommended after an application of Capra and depending on results a reapplication of Capra should be carried out if necessary. Use the shorter interval when insect pressure is high. Resistance management: DO NOT apply more than 2 sequential applications, and / or more than 4 applications in any one crop. Further treatments should be made with alternative mode of action insecticides. Moth larvae in the soil or within stems will not be controlled. Control of tuber moth is assisted by maintaining soil moisture at an adequate level by irrigation and good soil coverage over the developing tubers.

WITHHOLDING PERIODS

Vegetable brassicas and Head Lettuce (outdoors) DO NOT apply within 3 days of harvest
Potatoes DO NOT apply within 7 days of harvest

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

CONDITIONS OF SUPPLY

All goods supplied by us are produced under rigid quality control procedures which assure the purchaser that at the time of sale they are physically suitable for use in the manner stated. However, to the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Agri Solutions Ltd as registrant, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.

READ LABEL COMPLETELY BEFORE USE



DANGER

Harmful if swallowed. May cause an allergic skin reaction. May cause damage to the Hematopoietic system from repeated oral exposure at high doses.

ECOTOXICITY

Harmful to aquatic life. Avoid contamination of any water supply with product or empty container. Do not apply onto or into water. Collect spillage. Hazardous to terrestrial vertebrates. Very toxic to terrestrial invertebrates.

RECORD KEEPING

Where 3 kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer to Part 4 Clause 48 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for details of information that must be recorded.

QUALIFICATIONS REQUIRED FOR USE OF THIS PRODUCT

Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for a list of suitable qualifications.

HANDLING PRECAUTIONS - THIS PRODUCT IS RESTRICTED TO WORKPLACES ONLY

Personal Protection: Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe fumes, mist, vapours or spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. When mixing or applying, avoid contact with skin and eyes. Wear full protective clothing, gloves and goggles. Wash hands and face before meals and after work. Wash protective clothing after work. Contaminated work clothing should not be allowed out of the workplace.

Equipment: Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Flush spray equipment thoroughly with water after use.

Storage: Store in original container, tightly closed and under lock and key, in a cool, well-ventilated area. DO NOT store for long periods of time in direct sunlight. DO NOT store with Class 1,2,3,2,4 or 5 substances or feed, seeds or foodstuffs. Stores containing more than 100 Litres of this product require secondary containment and are subject to signage.

Shelf Life: When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

Spillage: Move non-essential people from the area. Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

Product Disposal: Dispose of unwanted product by use by another operator strictly in accordance with label directions.

Container Disposal: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

Safety Data Sheet: Additional information is provided in the SDS available from your supplier or www.agrisource.co.nz

FIRST AID

IF SWALLOWED: Rinse Mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. For advice, contact the National Poisons Centre 0800 Poison (0800 764 766) or a doctor immediately. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. **IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. **IF exposed or concerned or if you feel unwell:** Get medical advice/attention. If medical advice is needed, have product container or label at hand.

EMERGENCY RESPONSE

In a transport emergency call 111, Police or Fire Brigade

® Capra is the registered Trademark of Agri Solutions Ltd

Registered pursuant to the ACVM Act 1997 No. P9928
See www.foodsafety.govt for registration conditions

Approved pursuant to the HSNO Act 1996 No. HSR000583
See www.epa.govt.nz for approval conditions

BATCH NO:

REGISTRANT

Agri Solutions Ltd
45 Kitchener Road,
Pukekohe 2120

DISTRIBUTOR

AgriSource (2000) Ltd
45 Kitchener Road, Pukekohe 2120
09 237 0422 · www.agrisource.co.nz

DATE OF
MANUFACTURE:

24 HOUR EMERGENCY RESPONSE 0800 CHEMCALL (0800 243 622)