



AGRO-ALLIANCE
(AUSTRALIA) PTY LTD
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Agro-Essence Imidacloprid 200 Insecticide MSDS

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Supplier: Agro-Alliance (Australia) Pty Ltd.

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Emergency telephone number: National Poisons Information Centre: Phone Australia 13 11 26.

Product name: Agro-Essence Imidacloprid 200 Insecticide

Product Use: An insecticide for the control of various insect pests of cotton, fruit, vegetables, turf and ornamentals.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients Name	CAS No.	Proportion
Imidacloprid	138261-41-3	200 g/L
Glycerine	56-81-5	10-30 %
Other ingredients (considered non-hazardous)		0-10 %
Water		Balance

3. HAZARDS IDENTIFICATION

Hazard Classification

NON-HAZARDOUS SUBSTANCE - Hazard classification according to the criteria of NOHSC.

NON-DANGEROUS GOODS - Dangerous goods classification according to the Australia Dangerous Goods Code.

Other Information Poisons Schedule S5

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.

Ingestion Rinse mouth and then drink plenty of water. Do not give anything by mouth to a semi-conscious or unconscious person. Seek medical advice immediately.

Skin Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.

Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.

First Aid Facilities If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).

Advice to Doctor Treat symptomatically.

Has a nicotine like effect. Check blood pressure and pulse rate frequently, as bradycardia and hypotonia are possible. Provide supportive measures for respiratory function and cardiac action. Give artificial respiration if signs of paralysis appear.

Additional therapeutic measures involve elimination of the substance from the body or acceleration of its excretion (gastric lavage, saline laxatives, activated charcoal).

Contra-indications: Absorption promoting agents such as alcoholic beverages and milk.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion Products

May emit toxic fumes of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides if involved in fires or exposed to extreme heat.

Special Protective Equipment for Fire Fighters

Breathable air apparatus should be worn when fighting a fire in which this product is involved.

Specific Hazards Considered low risk due to water content, however upon evaporation of water the product is combustible.

Hazchem Code None Allocated

Other Information Contain fire water. Prevent fire water from entering drains or water bodies.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Onsite disposal of concentrate is not acceptable.

7. HANDLING AND STORAGE

Conditions for Safe Storage

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

Other Information Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards

NOHSC has set the following exposure standard for glycerine: TLV (TWA) 10 mg/m³, STEL -

Engineering Controls

Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment

It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.

Hygiene Measures After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Beige liquid suspension
Solubility in Water	Disperses in water
Specific Gravity	1.108
Vapour Pressure	9 x 10 ⁻⁷ mPa @ 25°C (imidacloprid)
Octanol/Water Partition Coefficient	Kow Log P is 0.57 @ 21°C (imidacloprid)
Flammability	Not flammable

10. STABILITY AND REACTIVITY

Chemical Stability - Stable under normal conditions.

Hazardous Reactions - Keep away from strong oxidising agents.

Hazardous Polymerisation - Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

Inhalation Inhalation of sprays or mists may result in effects described under ingestion.

Ingestion Swallowing large quantities may cause vomiting, diarrhoea, abdominal pain, lethargy, depressed muscular tone, muscular cramps, respiratory disturbances and trembling.

Skin May irritate the skin.

Eye May irritate the eyes.

Chronic Effects Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Acute Toxicity - Oral LD50 (rat) >5,000 mg/kg for the formulated product

Acute Toxicity - Dermal LD50 (rat) >2,000 mg/kg for the formulated product

Acute Toxicity - Inhalation

LC50 (rat) (4hr) >0.56 mg/L for the formulated product. No toxic signs, pre-terminal deaths or post mortem abnormalities were observed.

Other Information The Australian Acceptable Daily Intake (ADI) for imidacloprid for a human is 0.06 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 6 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, September 2005).

12. ECOLOGICAL INFORMATION

Other Precautions Do not spray on vegetation where honeybees are foraging. Do not contaminate dams, waterways or sewers with this product or the containers, which have held this product.

Environ. Protection Spray drift can cause damage, read the label for more information.

Acute Toxicity - Fish The following is data for the active ingredient, imidacloprid.

LC50 (96 hr) for rainbow trout is 211 mg/L.

Acute Toxicity – Daphnia LC50 (48 hr) for daphnia magna is 85 mg/L.

Acute Toxicity – Algae EC50 (48hr) for pseudokirchneriella subcaptia >100 mg/L.

Acute Toxicity - Other Organisms

LD50 for Japanese quail is 31 mg/kg

LD50 for bobwhite quail is 152 mg/kg

Harmful to bees by direct contact.

13. DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

U.N. Number None Allocated **DG Class** None Allocated

Hazchem Code None Allocated **Packing Group** None Allocated

Storage and Transport: Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

Poisons Schedule S5

Packaging & Labelling

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

AICS (Australia) All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipients subsequently produce formulations containing this product, it is the recipients' sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

National Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia).