

# SAFETY DATA SHEET

## SECTION 1

## IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Apparent Indoxacarb 300 WG Insecticide**

**Other Names:** Indoxacarb. Group 22A Insecticide.  
**Use:** Agricultural insecticide the control of *Lepidopteran* species of insect pests in certain vegetable and fruit crops.  
**Company:** Apparent Pty Ltd  
**Address:** Suite G.08 762 Toorak Road, Hawthorn East, Vic 3123  
PO Box 3092, Cotham PO, Kew, Vic 3101  
**ACN/ABN:** 143 724 136  
**Telephone Number:** 03 9822 1321  
**Email:** [enquiries@apparentag.com.au](mailto:enquiries@apparentag.com.au)  
**Emergency Contact:** 0411 227 338

## SECTION 2

## HAZARDS IDENTIFICATION

**Classified as hazardous according to criteria of Safe Work Australia.  
Not classified as a Dangerous Good according to the ADG Code**

Not subjected to the ADG code when transported in Australia by Road or Rail in packages 500 L or less; or in IBC's (refer to SP AU01). However, if transported by Air or Sea, this provision does not apply. Then the product is classed as Dangerous (Class 9 Environmentally Hazardous) by IATA and IMDG respectively. See Section 14 of this SDS for details.

### Globally Harmonised System (GHS) classification of the substance/mixture:

Acute Toxicity – Oral: Hazard Category 4.  
Sensitisation - Skin: Hazard Category 1.  
Hazardous to the aquatic environment – Long term hazard: Hazard Category 1.

**Signal Word:** WARNING.

### Hazard Statements:

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to Aquatic life with long lasting effects.

### Precautionary Statements:

#### Prevention:

P102 Keep out of reach of children.  
P261 Avoid breathing dusts.  
P264 Wash hands, arms and face thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.

#### Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if feel unwell.  
P301 + P330 + P 331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P330 Rinse mouth.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P391 Collect spillage.

**SECTION 2 HAZARDS IDENTIFICATION (Continued)****Disposal:**

P501 Dispose of contents/container in accordance with national regulations.

**Pictograms:****SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients:**

CHEMICAL	CAS NUMBER	PROPORTION
Indoxacarb	173584-44-6	300 g/kg
Other ingredients determined not to be hazardous		Balance

**SECTION 4 FIRST AID MEASURES****FIRST AID**

- Ingestion:** If swallowed contact a doctor or the Poisons Information Centre on 13 11 26. Do not induce vomiting. Rinse mouth thoroughly with water and give water to drink.
- Eye contact:** Gently brush granules away. Hold eyes open and flood with clean water. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. If irritation persists, seek medical advice.
- Skin contact:** Brush granules gently off clothing and skin. Remove contaminated clothing. Wash skin thoroughly with soap and water. If skin is irritated, seek medical advice.
- Inhalation:** Overexposure by inhalation is improbable. Check for other causes of observed symptoms, move victim to fresh air and seek medical advice.

**Advice to Doctor:** Treat Symptomatically.

**SECTION 5 FIRE FIGHTING MEASURES**

**Specific Hazard:** Not combustible. If involved in a fire, decomposition products are likely to be toxic.

**Extinguishing media:** Use extinguishing media suitable for burning material. If water is used, contain all runoff.

**Hazards from combustion products:** There is a very low risk of an explosion from this product under normal circumstances if involved in a fire. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or smoke.

**Precautions for fire-fighters and special protective equipment:** Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or vapours generated.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Emergency procedures:** Wear cotton overalls buttoned to the neck and wrists, a washable hat, elbow-length PVC gloves and a face shield or goggles. In the case of spillage, stop leak if safe to do so, and contain spill. Prevent spillage entering drains or watercourses. Contain and absorb spilled material with absorbent material such as sand, clay, cat litter or material such as vermiculite. Collect recoverable product for use as labelled on the product. Vacuum, shovel or pump contaminated spilled material into an approved container and dispose of waste as per the requirements of Local or State Waste Management Authorities. Keep out animals and unprotected persons.

**Material and methods for containment and cleanup procedures:** To clean spill area, tools and equipment, wash with a solution of soap, water and acetic acid/vinegar. Follow this with a neutralisation step of washing the area with a bleach or caustic soda ash solution.

## SECTION 6 ACCIDENTAL RELEASE MEASURES (Continued)

Finally, wash with a strong soap and water solution. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected.

## SECTION 7 HANDLING AND STORAGE

**Precautions for Safe Handling:** Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. If product in eyes, wash it out immediately with water. Wash hands after use. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrists, a washable hat, elbow-length PVC gloves and a face shield or goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrists, a washable hat and elbow-length PVC gloves. After each day's use wash gloves, face shield or goggles and contaminated clothing.

**Conditions for Safe Storage:** Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Standards:** Exposure guidelines have not been established for this product by Safe Work Australia.

**Biological Limit Values:**

No biological limit allocated.

**Engineering controls:**

Use in well ventilated areas. Keep containers closed when not in use.

**Personal Protective Equipment (PPE):**

General: When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrists, a washable hat, elbow-length PVC gloves and a face shield or goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrists, a washable hat and elbow-length PVC gloves. After each day's use wash gloves, face shield or goggles and contaminated clothing.

Personal Hygiene: Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. If product in eyes, wash it out immediately with water. Wash hands after use. Clean water should be available for washing in case of eye or skin contamination.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Light brown granules.
<b>Odour:</b>	Faint mild odour.
<b>Boiling point:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Bulk density:</b>	Approx 800 g/cm <sup>3</sup> .
<b>Solubility in Water:</b>	Suspends in water.
<b>pH:</b>	No data available.
<b>Flammability:</b>	Does not sustain combustion.
<b>Corrosive hazard:</b>	Not corrosive.
<b>Flashpoint (°C):</b>	Not flammable.
<b>Flammability Limits (%):</b>	Not applicable.
<b>Poisons Schedule:</b>	This product is a Schedule 6 (S6) poison.
<b>Formulation type:</b>	Water Dispersible Granule (WG).

## SECTION 10 STABILITY AND REACTIVITY

**Chemical Stability:** Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

**Conditions to avoid:** Do not store for prolonged periods in direct sunlight.

**Incompatible materials:** Avoid strong oxidising agents, strong acids and strong bases.

## SECTION 10 STABILITY AND REACTIVITY (Continued)

**Hazardous decomposition products:** If product is involved in a fire decomposition products are likely to be toxic.

**Hazardous reactions:** Hazardous polymerisation will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

### **Potential Health Effects:**

#### **ACUTE EFFECTS**

**Ingestion:** Moderate to low acute oral toxicity. LD<sub>50</sub> (rat) 268 mg/kg (♀); 1730 mg/kg (♂).

**Skin:** Prolonged contact with the concentrate may cause irritation. Prolonged or repeated exposure may cause skin irritation. LD<sub>50</sub> > 5000 mg/kg.

**Eye:** The concentrate may cause irritation of the eyes.

**Inhalation:** Not a likely route of exposure when handling the concentrate. LC<sub>50</sub> > 5.6 mg/L/4 hr. May cause irritation to the respiratory tract.

**Long Term Exposure:** Animal and tissue testing on the active ingredient (Indoxacarb) did not show any mutagenic, carcinogenic, reproductive or developmental toxicity.

Safe Work Australia has classified Indoxacarb as a potential sensitiser by skin contact. Persons sensitised to Indoxacarb should avoid using this product.

## SECTION 12 ECOLOGICAL INFORMATION

**Environmental Toxicology:** Toxic to fish. LC<sub>50</sub> (96 hr) for rainbow trout is 0.65 mg/L. EC<sub>50</sub> (48 hr) for daphnia is 0.6 mg/L for Indoxacarb. Algae: EC<sub>50</sub> > 0.11 mg/L. Birds: Low toxicity to birds. LD<sub>50</sub> for Bobwhite quail is 808 mg/kg. Bees: Low toxicity to bees by dietary intake, but highly toxic by direct contact. LD<sub>50</sub> > 50 µg/bee. Worms: LD<sub>50</sub> (*Eisenia foetida*) 6 mg/kg.

**Environmental Fate:** Indoxacarb is considered to be moderately persistent with aerobic half-lives ranging from 3 to 693 days and anaerobic range from 147 to 233 days. It is considered to be immobile with K<sub>oc</sub>'s ranging from 3300 to 9600 mL/g. The environmental fate profile indicates no major issues in the areas of soil persistence, mobility, and fish bioaccumulation for the indoxacarb and its R-enantiomer.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Spills and Disposal:** Wear prescribed protective clothing and equipment. Keep material out of streams and sewers. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities. In rural areas contact ChemClear <http://www.chemclear.com.au> for help with collection of unwanted rural chemicals. Ideally the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

**Disposal of empty containers:** Triple-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 a designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

**SECTION 14****TRANSPORT INFORMATION**

**Road & Rail Transport:** This product is exempt from classification as a Dangerous Good in packs less than 500 litres or less; or in IBC's (refer to SP AU01) under the Australian Code for the Transport of Dangerous Goods by Road and Rail. For other shipments this product is a class 9, UN 3082.

Apparent Indoxacarb 300 WG Insecticide is classified as a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:-  
UN 3082, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Indoxacarb). Hazchem code ●3Z. Hazard Identification Number (HIN) 90.

**SECTION 15****REGULATORY INFORMATION**

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a Schedule 6 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 84782.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia.

This product is not classified as a Dangerous Good according to the ADG Code (7<sup>th</sup> Ed).

This product is classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

*Requirements concerning special training:*

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

**SECTION 16****OTHER INFORMATION**

Issue Date: 19 September 2017. Valid for 5 years till 19 September 2022. (First issue).

Key to abbreviations and acronyms used in this SDS:

ADG Code Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

Lavage: A general term referring to cleaning or rinsing.

Mutagen: An agent capable of producing a mutation.

Myotoxic: Having or being a toxic effect on muscle.

Pneumonitis: A general term that refers to inflammation of lung tissue.

PPE: Personal protective equipment.

Teratogen: An agent capable of causing abnormalities in a developing foetus.

Safe Work Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

**References**

1. "Search Hazardous Substances". Safe Work Australia website. (2017).
2. "Approved Criteria for Classifying Hazardous Substances" 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2009.

*This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.*

*If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. End SDS.*