

# SAFETY DATA SHEET

## SECTION 1

## IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Independents Own Tick Off Pour-On Tick Development Inhibitor**

**Other Names:** Fluazuron; Benzoyphenol urea derivative.  
**Use:** Ectoparasiticide for cattle.  
**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.**

**Global Harmonization System (GHS) classification of the substance/mixture:**

Flammable Liquids – Category 4.  
Skin Corrosion/Irritation: Category 2.  
Sensitization –Skin: Category 1, 1A, 1B.  
Eye Damage/Irritation: Category 2B.  
Specific Target Organ Toxicity (Single Exposure): Category3.  
Toxic to Reproduction: Category 2.  
Hazardous to the Aquatic Environment – Long Term Hazard – Category1.

**Signal Word:** WARNING

**Hazard Statements:**

H227 Combustible liquid.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H320 Causes eye irritation.  
H335 May cause respiratory irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

*Prevention:*

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from flames and hot surfaces. – No smoking.  
P260 Do not breathe mist, vapour or spray.  
P264 Wash hands, arms and face thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P281 Use personal protective equipment as required.

**SECTION 2 HAZARDS IDENTIFICATION (Continued)**

*Response:*

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P303 + P361 + 353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention:  
P310 Immediately call a POISON CENTER or doctor/physician.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P321 Specific treatment (see Safety Directions on this label).
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and Wash before reuse.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire use foam blanket, carbon dioxide or dry agent for extinction.
- P391 Collect Spillage.

*Storage:*

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

*Disposal:*

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

**Pictograms:**



**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**Ingredients:**

<b>CHEMICAL</b>	<b>CAS NUMBER</b>	<b>PROPORTION</b>
Fluazuron	86811-58-7	25 g/L
1-dodecyl-2-pyrrolidone	2687-96-9	100 g/L
1-octyl-2-pyrrolidone	2687-94-7	100 g/L
1-methyl-2-pyrrolidone	872-50-4	415 g/L
Other ingredients determined not to be hazardous (including water)		Balance

**SECTION 4 FIRST AID MEASURES**

**FIRST AID**

- Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water. Wash mouth with water. If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126.
- Eye contact:** Quickly and gently blot material from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 20-30 minutes, by the clock, while holding the eyelid(s) open. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this MSDS and take their advice). Take care not to rinse contaminated water into the unaffected eye or onto face. If irritation persists, repeat flushing. Call a Poisons Information Centre or a doctor urgently. Take special care if exposed person is wearing contact lenses.

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## **SECTION 4**      **FIRST AID MEASURES (Continued)**

**Skin contact:** Quickly and gently blot away excess liquid. Flush contaminated area with lukewarm, gently flowing water for at least 20-30 minutes, by the clock. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this MSDS and take their advice). Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). If irritation persists, repeat flushing. Seek medical attention. Launder contaminated clothing before re-use.

**Inhalation:** Remove to fresh air and observe until recovered. If effects persist, seek medical advice.

**Advice to Doctor:** Treatment is symptomatic and supportive.

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## **SECTION 5**      **FIRE FIGHTING MEASURES**

**Specific Hazard:** Product is a combustible liquid. Flash point 92°C.

**Extinguishing media:** Extinguish fire using foam blanket, carbon dioxide or dry agent. If not available, use waterfog or fine water spray but ensure all runoff is contained. Do not use high pressure water jets.

**Hazards from combustion products:** Product will emit toxic and noxious fumes when burnt. 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.

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## **SECTION 6**      **ACCIDENTAL RELEASE MEASURES**

**Emergency procedures - Accidental release:** In the event of a major spill, prevent spillage from entering drains or water courses. Extinguish all sources of ignition. Wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length PVC gloves and a face shield. Large spills should be dyked to prevent dispersal. In the case of spillage, stop leak if safe to do so, and contain spill. Contain spill and vacuum, shovel or collect recoverable material into labelled containers for use, recycling or dispose as waste as indicated in section 13. 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 and water. Finally, wash with water. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected. If a significant quantity of material enters drains, advise emergency services. Thoroughly launder protective clothing before storage or re-use.

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## **SECTION 7**      **HANDLING AND STORAGE**

**Precautions for Safe Handling:** No smoking, eating or drinking should be allowed where material is used or stored. Harmful if swallowed. Will damage eyes and skin. Avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length PVC gloves and a face shield. If clothing becomes contaminated with product remove clothing immediately. If product gets on skin, immediately wash area with soap and water. If product gets in eyes, wash it out immediately with water. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.

**Conditions for Safe Storage:** Store in the closed, original container in a well ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight. This product is classified as a C1 (Combustible Liquid) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to state regulations for storage and transport requirements. Do not store or use near naked flame, or heat sources. Do not cut or weld container. This product is a Schedule 6 Poison (S6) and must be stored, transported and sold in accordance with the relevant Health Department regulations.

## SECTION 8

## EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines:

Exposure guidelines have not been established for this product by Safe Work Australia, however the manufacturer recommends the following guideline.

Atmospheric Contaminant	Exposure Standard (TWA)	STEL (mg/m <sup>3</sup> )
1-methyl-2-pyrrolidone (Skin*)	103 mg/m <sup>3</sup> (25 ppm)	309 mg/m <sup>3</sup> (75 ppm)

TWA = Time-weight Average    STEL = Short term Exposure Limit

\* The 'skin' notation refers to the potential for dermal absorption of the material including mucous membranes and the eyes by contact with vapours or direct skin contact.

### Biological Limit Values:

No biological limit allocated.

### Engineering controls:

Use in ventilated areas adequate to keep exposure below the TWA. Keep containers closed when not in use. Ventilate all transport vehicles prior to unloading.

### Personal Protective Equipment (PPE):

General: When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length PVC gloves and a face shield. If clothing becomes contaminated with product remove clothing immediately. If product gets on skin, immediately wash area with soap and water. If product gets in eyes, wash it out immediately with water. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.

Personal Hygiene: Harmful if swallowed. Will damage eyes and skin. Avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

## SECTION 9

## PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, light yellow coloured liquid.
<b>Odour:</b>	Ammoniacal like odour.
<b>Boiling point:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Specific Gravity:</b>	Approximately 1.
<b>Solubility in Water:</b>	Insoluble in water.
<b>pH:</b>	No data available.
<b>Flammability:</b>	Combustible Liquid (C1).
<b>Flashpoint (°C):</b>	92°C.
<b>Poisons Schedule:</b>	Product is a Schedule 6 (S6) poison.
<b>Formulation type:</b>	Topical solution/suspension.

## SECTION 10

## STABILITY AND REACTIVITY

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

**Conditions to avoid:** Do not store for prolonged periods in direct sunlight. Do not store near naked flames or sources of ignition.

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

**Hazardous decomposition products:** This product will decompose if involved in a fire and will emit toxic and noxious fumes.

**Hazardous reactions:** Will not polymerise.

## 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**

**Swallowed:** Low acute toxicity. Acute oral LD<sub>50</sub> (rat) > 2,000 mg/kg (similar formulation). If swallowed this product is corrosive to the gastrointestinal tract. Capable of causing moderate to severe burns with ulceration. Corrosion will continue until product is removed or neutralised. Severity depends on concentration and duration of exposure

**Eye:** This product is corrosive to eyes. It will cause severe pain, and corrosion of the eye and surrounding facial tissues. Unless exposure is quickly treated, permanent blindness and facial scarring is likely.

**Skin:** Classified as a potential sensitiser by skin contact. Exposure to a skin sensitiser, once sensitisation has occurred, may manifest itself as skin rash or inflammation, and in some individuals this reaction can be severe. In addition, product is corrosive to the skin. Capable of causing moderate to severe burns with ulceration. Can penetrate to deeper layers of skin, resulting in third degree burns. Corrosion will continue until product is removed or neutralised. Severity depends on concentration and duration of exposure. Burns may not be immediately painful; the onset of pain may be minutes to hours.

**Inhaled:** Available data indicates that this product is an inhalation irritant. If liquid enters nasal passages, it will cause pain and burn nasal membranes. Patients with inhalation burns may develop acute pulmonary oedema.

**Poisoning Symptoms:** Ingestion is likely to cause smarting and burning sensations, inflammation, burns and painful blisters of the mouth, throat and digestive tract. Exposure by inhalation is unlikely but the effects would be irritation of mucous membranes, nose, eyes and throat, coughing and difficulty in breathing. Based on tests with the components, the product is likely to cause a smarting and burning sensation on skin or eye contact. These symptoms could extend to inflammation, burns and/or painful burns on the skin. Eye contact could result in painful stinging of the eyes and lids, watering of the eyes, conjunctivitis, opaqueness of cornea and possibly to loss of sight.

**Sensitisation** - (Based on results on guinea-pigs): 1-dodecyl-2-pyrrolidone showed delayed contact hypersensitivity in guinea pigs.

#### **Long Term Exposure:**

**Chronic toxicity:** Fluazuron has been tested *in vitro* for its ability to induce reverse mutations in *Salmonella typhimurium*, gene mutations in Chinese hamster cells, chromosomal aberration in human lymphocytes, and DNA repair in rat hepatocytes and human fibroblasts. It has also been tested *in vivo* for its ability to induce nuclear anomalies in Chinese hamster bone marrow. All the results were negative. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects was obtained for flurazuron technical.

Safe Work Australia has classified 1-methyl-2-pyrrolidone in the occupational environment as a reproduction category 2 substance – which indicates that there is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility.

## SECTION 12

## ECOLOGICAL INFORMATION

**Environmental Toxicology:** Fluazuron has moderate toxicity to fish (96 hour LC<sub>50</sub> trout: >15 mg/L) and algae (72 hour EC<sub>50</sub> *Scenedesmus subspicatus* = 203 mg/L) but very high toxicity to *Daphnia* 48 hour EC<sub>50</sub> = 0.0006 mg/L. Low toxicity to earthworms 14 day LC<sub>50</sub> = 1000 mg/kg.

**Environmental Fate:** No data available.

Mode of action: Chitin synthesis inhibitor. Treated immature ticks are unable to moult to the next stage, and no larvae will hatch from eggs laid by treated females. Does not seem to affect male ticks.

## SECTION 13

## DISPOSAL CONSIDERATIONS

**Spills and Disposal:** Persons involved in cleanup require adequate skin protection - see section 8. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

**Disposal of empty containers:** Triple-rinse container and dispose of rinsate in compliance with relevant local, state or territory government regulations. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean container to recycler or designated collection point. If not recycling, break, crush, or puncture container and deliver to an approved waste management facility. If an approved waste management facility is not available, bury the broken, crushed or punctured containers 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product. Do not cut or weld metal containers. Vapours that form inside may create an explosion hazard.

## SECTION 14

## TRANSPORT INFORMATION

**Road & Rail Transport:** This product is exempt from classification as a Dangerous Good in packs less than 3,000 kg or litres under the Australian Code for the Transport of Dangerous Goods by Road and Rail. For bulk shipments this product is a class 9, UN 3082 (3077). (See special provision AU01).

**Marine and Air Transport:** This product 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 (SOLID), N.O.S. (Contains Flurazuron). Hazchem code ●3Z. Hazard Identification Number (HIN) 90. Australian Standards Initial Emergency Response Guide No. 47.

## 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. 81471.

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 for packs less than 3000 litres (SP AU01) (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: 14 January 2016. Valid for 5 years till 14 January 2021. (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.

Combustible Liquid: Liquids that ignite with a flash point greater than 60°C.

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

HSIS: Hazardous Substances information System.

Lacrimation: The production, secretion, and shedding of tears.

Lavage: A general term referring to cleaning or rinsing.

Mutagen: An agent capable of producing a mutation.

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**SECTION 16**    **OTHER INFORMATION (Continued)**

NOHSC:      National Occupational Health and Safety Commission.  
OCS:        Office of Chemical Safety.  
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.  
TWA:        The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.  
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". HSIS. Safe Work Australia website. (2016).
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