

Infosafe No™ 3NV39	Issue Date : March 2019	ISSUED by NUFARM
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Product Name **INTAKE HiLOAD GOLD In-Furrow Fungicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	INTAKE HiLOAD GOLD In-Furrow Fungicide
<b>Product Code</b>	5197 <span style="float: right;">NUL 3448</span>
<b>Product Type</b>	Group 3 Fungicide
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	This product is for the control of certain fungal diseases on wheat, barley and canola when mixed with granulated or liquid fertiliser or water and applied in-furrow as per the Directions for Use table on the label.
<b>Other Information</b>	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	OT4 Acute Toxicity - Oral: Category 4 DT4 Acute Toxicity - Dermal: Category 4 ED2A Eye Damage/Irritation: Category 2A SC-2 Skin Corrosion/Irritation: Category 2 AC2 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H312 Harmful in contact with skin. H319 Causes serious eye irritation. H315 Causes skin irritation. H411 Toxic to aquatic life with long lasting effects.
<b>General Precautionary Statement (s)</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
<b>Pictogram (s)</b>	Exclamation mark, Environment, The below pictogram is a GHS Hazard symbol for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, clothing, eye and face protection.
<b>Precautionary statement – Response</b>	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P363 Wash contaminated clothing before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.
<b>Other Information</b>	Poisons Schedule S6

## 3. Composition/information on ingredients

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**Chemical** Liquid

**Characterization**

**Ingredients**

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Flutriafol technical	76674-21-0	500 g/L
Glycerol	56-81-5	10-30 %
Other ingredients (considered non-hazardous)		10-30 %
Water		30-60 %

#### 4. First-aid measures

<b>Inhalation</b>	Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.
<b>Ingestion</b>	If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
<b>Advice to Doctor</b>	Treat symptomatically.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	If involved in a fire, it will emit oxides of nitrogen, oxides of carbon and possibly hydrogen fluoride. Non-flammable.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus should be worn when fighting a fire in which this product is involved.
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

#### 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers. Use earthen bunds or absorbent bunding to prevent spreading of spillage.

#### 7. Handling and storage

<b>Conditions for safe storage, including any incompatibilities</b>	Do not store near oxidisers. Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

#### 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure standard for this product has been set, however, an exposure standard has been recommended by the supplier for flutriafol at 1.5 mg/m <sup>3</sup> . Safe Work Australia has set the following exposure standard for glycerol mist : TLV (TWA) 10 mg/m <sup>3</sup> , STEL -.
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat,

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<b>Hygiene Measures</b>	elbow-length PVC gloves and goggles. Re-entry period: Do not enter treated area until spray has dried. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
<b>Requirements Concerning Special Training</b>	After each day's use, wash contaminated clothing and safety equipment. 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.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Yellow opaque liquid
<b>Melting Point</b>	~ -5°C
<b>Boiling Point</b>	~ 100°C (water)
<b>Solubility in Water</b>	Solubility of flutriafol is 130 mg/l @ pH 7-9 Disperses in water.
<b>Specific Gravity</b>	1.195
<b>pH</b>	6-8 (1%)
<b>Vapour Pressure</b>	7.6 x 10 <sup>-6</sup> mPa for flutriafol
<b>Volatile Component</b>	~60%
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 2.3 for flutriafol
<b>Flammability</b>	Non combustible material.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) 1140 mg/kg for flutriafol
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >1000 mg/kg for flutriafol
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >5.2 mg/l for flutriafol
<b>Ingestion</b>	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.
<b>Inhalation</b>	May cause irritation to the respiratory tract.
<b>Skin</b>	Not a skin irritant and not harmful by dermal exposure.
<b>Eye</b>	May cause some discomfort if contact is prolonged.
<b>Carcinogenicity</b>	The weight of the evidence is that flutriafol is not carcinogenic.
<b>Reproductive Toxicity</b>	Data indicates no teratogenic effects for flutriafol. At doses toxic to maternal animals, flutriafol has been shown to produce developmental toxicity in a number of species. NOEL: 10 mg/kg/day (rat); and NOEL 7.5 mg/kg/day (rabbit).
<b>Chronic Effects</b>	Evidence from animal studies indicate that repeated or prolonged exposure to flutriafol can result in embryo/foetotoxic effects and liver disorders.
<b>Serious eye damage/irritation</b>	Mild eye irritant.
<b>Skin corrosion/irritation</b>	Not a skin irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for flutriafol for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 mg/kg/day, the level determined to show no effects during

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long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', June 2018).

## 12. Ecological information

<b>Persistence and degradability</b>	Not readily biodegradable.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, flutriafol. LC50 (96hr) for rainbow trout is 61 mg/l
<b>Acute Toxicity - Daphnia</b>	LC50 (96hr) for daphnia magna is 78 mg/l.
<b>Acute Toxicity - Algae</b>	IC50 (72hr) Scenedesmus subspicatus is 2 mg/l
<b>Acute Toxicity - Other Organisms</b>	Birds: Not toxic to birds. LD50 for mallards ducks is >5,000 mg/kg Not toxic to bees.

## 13. Disposal considerations

<b>Product Disposal</b>	On site disposal of the concentrated product is not acceptable. 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®).
<b>Container Disposal</b>	Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

## 14. Transport information

<b>Transport Information Storage and Transport</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.
<b>UN Number (Sea Transport)</b>	For bulk shipments as Class 9, use UN 3082, HazChem code 2Z. 3082
<b>IMO Class/Packing Group</b>	Class 9
<b>IMO Marine Pollutant</b>	Marine Pollutant
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains flutriafol)

## 15. Regulatory information

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<b>Regulatory Information</b>	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
<b>Poisons Schedule</b>	S6
<b>Packaging &amp; Labelling</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Other Information</b>	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 64077.

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## 16. Other Information

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<b>Date of preparation or last revision of SDS</b>	Revised 01/03/2019 This SDS replaces document dated February 2019.
<b>Contact Person/Point</b>	Normal Hours: Mrs Kathleen Marsh    Phone: +61 3 9282 1000 After Hours: Shift Supervisor        Phone: 1800 033 498
<b>Revisions Highlighted</b>	The SDS was reviewed due to a formulation change. Various changes have been made throughout this document. ...End Of MSDS...

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