

Infosafe No™ 3NUY2	Issue Date : June 2017	ISSUED by NUFARM
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 Product Name **ACHIEVE WG Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	ACHIEVE WG Herbicide
Product Code	0110
Product Type	Group A Herbicide
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
Telephone/Fax Number	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
Emergency phone number	1800 033 498 (24hr Australia)
Recommended use of the chemical and restrictions on use	For the control of wild oats and annual ryegrass and suppression of annual phalaris in wheat, barley, rye and triticale as per the Directions for Use table on the label.
Other Information	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

GHS classification of the substance/mixture	CA2 Carcinogenicity: Category 2 OT4 Acute Toxicity - Oral: Category 4 ED1 Eye Damage/Irritation: Category 1 SC-2 Skin Corrosion/Irritation: Category 2
Signal Word (s)	DANGER
Hazard Statement (s)	H351 Suspected of causing cancer. H302 Harmful if swallowed. H318 Causes serious eye damage. H315 Causes skin irritation.
General Precautionary Statement (s)	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.
Pictogram (s)	Corrosion, Exclamation mark, Health hazard, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	P202 Do not handle until all safety precautions have been read and understood. 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.
Precautionary statement – Response	P308+P313 IF exposed or concerned: Get medical advice/attention. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. 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. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.
Other Information	Poisons Schedule S5

3. Composition/information on ingredients

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Chemical Solid

Characterization
Ingredients

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Tralkoxydim technical	87820-88-0	400 g/kg
Mica	12001-26-2	10-30 %
Other ingredients (non-hazardous)		Balance

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. Obtain medical advice. If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Skin	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

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

6. Accidental release measures

Spills & Disposal	Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

7. Handling and storage

Precautions for Safe Handling	Avoid generating dusts while handling the product and mixing. If dusts are generated, it is advisable to wear a dust mask, refer Section 8.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standard for this product has been set, however, an exposure standard has been set for mica at 2.5 mg/m ³ . The manufacturer has recommended the following exposure standard for tralkoxydim: TLV (TWA) 3 mg/m ³ , STEL -.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate. Avoid generating and inhaling dusts.

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Respiratory Protection	If dusts are present, wear a class P1 dust mask.
Personal Protective Equipment	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.
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.

9. Physical and chemical properties

Form	Solid
Appearance	Blue granules
Melting Point	99 - 104°C for tralkoxydim
Solubility in Water	Disperses in water.
Specific Gravity	1.16
Vapour Pressure	3.7 x 10 ⁻⁴ mPa (tralkoxydim)
Partition Coefficient: n-octanol/water	Kow Log P is 2.1 (tralkoxydim)
Flammability	Combustible
Auto-Ignition Temperature	550 - 600°C
Other Information	pKa is 4.3 (tralkoxydim)

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Tralkoxydim (before formulation) has exhibited exothermic decomposition at around 100°C. Avoid heating the product to high temperatures.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	The following data is for the active ingredient, tralkoxydim. LD50 (rat) 934 mg/kg
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for tralkoxydim
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >3.5 mg/l
Ingestion	Possible symptoms of exposure include: nausea, vomiting and central nervous system depression.
Inhalation	May cause irritation to the respiratory tract.
Skin	Prolonged contact with the concentrate may cause irritation.
Eye	May irritate the eyes.
Skin Sensitisation	Product is not a skin sensitiser.
Carcinogenicity	Suspected human carcinogen based on limited evidence from studies with laboratory animals.
Reproductive Toxicity	No such effects have been observed in the absence of maternal toxicity.
Chronic Effects	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
Serious eye damage/irritation	Moderate eye irritant.

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Mutagenicity Data indicates no mutagenic effects.

Skin corrosion/irritation Moderate skin irritant.

Other Information The Australian Acceptable Daily Intake (ADI) for tralkoxydim for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 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: Aust Govt Dept. of Health, Office of Chemical Safety, 'ADI List', March 2016).

12. Ecological information

Persistence and degradability Average field half life of tralkoxydim under aerobic conditions is 2 - 13 days.

Environmental Protection Spray drift should be avoided, read the label for more information.

Acute Toxicity - Fish The following is data for the active ingredient, tralkoxydim.
LC50 (96hr) for rainbow trout is >7.2 mg/l
LC50 (96hr) for bluegill sunfish is >6.1 mg/l.

Acute Toxicity - Daphnia EC50 (48hr) for daphnia is >175 mg/l for tralkoxydim.

Acute Toxicity - Algae EC50 (120hr) for algae >5.1 mg/l.

Acute Toxicity - Other Organisms Birds: Not toxic to birds. LD50 for mallard ducks is >3020 mg/kg
Bees: Not toxic to bees. LD50 54 µg/bee.

13. Disposal considerations

Product Disposal 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®).

Container Disposal Shake bag contents into spray tank until the bag is empty. Puncture and deliver empty packaging for appropriate disposal to an approved waste management facility.
50kg containers:- 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.

14. Transport information

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

Regulatory Information Australia: WHS regulations (2011) - Schedule 11: classification not listed.

Poisons Schedule S5

Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 46159.

16. Other Information



Safety Data Sheet

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Date of preparation 27/06/2017

**or last revision of
SDS**

Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions
Highlighted** The SDS was reviewed. Minor changes were made to the information and product
has been rebranded.

...End Of MSDS...

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