

Infosafe No™ 3NUNX	Issue Date : March 2016	ISSUED by NUFARM
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 Product Name **RyzUp SG Plant Growth Regulator**

Classified as hazardous

1. Identification

GHS Product Identifier	RyzUp SG Plant Growth Regulator
Product Code	5880
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	This product is a foliar spray application to stimulate production of winter dormant grass-dominant pastures for high intensity grazing such as dairy pasture or sheep lambing paddocks. Use 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	ED2A Eye Damage/Irritation: Category 2A
Signal Word (s)	WARNING
Hazard Statement (s)	H319 Causes serious eye 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)	Exclamation mark, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	P264 Wash hands and exposed skin thoroughly after handling. P280 Wear protective gloves, clothing, eye and face protection.
Precautionary statement – Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Other Information	Poisons Schedule : Not Scheduled

3. Composition/information on ingredients

Chemical Characterization	Solid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Gibberellic Acid	77-06-5	400 g/kg
	Other ingredients (considered 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	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

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Skin (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
Wash affected areas thoroughly with soap and water.

Eye contact Remove contaminated clothing and launder before re-use.
If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.

First Aid Facilities Seek medical advice if irritation develops or persists.
If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.

Advice to Doctor Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media Use appropriate medium for the underlying cause of the fire.

Special Protective Equipment for fire fighters Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

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.
Wash remaining material away.
Collect spilled material and waste in sealable open-top type containers for disposal.

Environmental Precautions Prevent product or washings from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling For personal protective equipment (PPE) and hygiene advice, refer Section 8.

Conditions for safe storage, including any incompatibilities Store in the closed, original container in a dry, well ventilated area out of direct sunlight.

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

8. Exposure controls/personal protection

Occupational exposure limit values No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m³.

Appropriate engineering controls No special ventilation required.
Avoid generating and inhaling dusts.

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

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 White to off-white granules.

Odour Odourless.

Solubility in Water Soluble in water.

pH 3.5 - 4.5 (0.1% solution in water)

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Partition Coefficient: Kow Log P is 2.30

n-octanol/water

Other Information pKa is 4.30

10. Stability and reactivity

Chemical Stability Stable under normal conditions.

Hazardous Polymerization Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information No harmful effects are expected if the precautions on the label and this MSDS are followed.

Acute Toxicity - Oral LD50 (rat) >5000 mg/kg for gibberellic acid

Acute Toxicity - Dermal LD50 (rabbit) >2000 mg/kg for gibberellic acid

Acute Toxicity - Inhalation LC50 (rat) (4hr) (as per the manufacturer) is >1.44 mg/l

Ingestion Not a likely route of exposure.

Inhalation Product is not expected to be irritating to the nose, throat or respiratory tract.

Skin Not a skin irritant and not harmful by dermal exposure.

Eye The concentrate may cause irritation of the eyes unless washed off immediately.

Skin Sensitisation Product is not a skin sensitiser.

Serious eye damage/irritation Moderate eye irritant.

Other Information The Australian Acceptable Daily Intake (ADI) for gibberellic acid for a human is 5 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 550 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, Office of Chemical Safety, 'ADI List', December 2014).

12. Ecological information

Other Precautions Do not spray in high winds.

Do not contaminate dams, waterways or sewers with this product.

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

Acute Toxicity - Fish LC50 (96hr) for rainbow trout is >96 mg/l for gibberellic acid

Acute Toxicity - Daphnia EC50 (48hr) for daphnia magna is >97 mg/l for gibberellic acid.

Acute Toxicity - Algae EC50 (72hr) for Pseudokirchneriella subcapitata >100 mg/l for gibberellic acid.

Acute Toxicity - Other Organisms The following data is for the active ingredient, gibberellic acid.
Birds: Not toxic to birds. LD50 for bobwhite quail is 2250 mg/kg

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 Do not use this container for any other purpose.

Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsings to the 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 deliver empty packaging for appropriate disposal at an approved waste management facility.

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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

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
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	Not Scheduled
Packaging & Labelling	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: 66252.

16. Other Information

Date of preparation or last revision of SDS	Reviewed 09/03/2016 This SDS replaces document dated February 2012.
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 to include GHS requirements. ...End Of MSDS...

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