



# Material Safety Data Sheet

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Infosafe No. 3NU2H Issue Date : April 2004 ISSUED by NUFARM

Product Name : **Roundup Dry**

Classified as hazardous according to criteria of NOHSC

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name** Roundup Dry  
**Product Code** 0903  
**Product Use** For the control of many annual and perennial weeds in certain situations as per directions for use.  
**Company Name** NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)  
**Address** 103-105 Pipe Road Laverton North  
Victoria 3026 Australia  
**Emergency Tel.** 24hr 1800 033 498  
**Telephone/Telex Number** Tel: (03) 9282-1000 Fax: (03) 9282-1001  
**Product Type** Group M Herbicide  
**Other Information** This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Solid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Glyphosate (present as the mono-ammonium salt)	1071-83-6	680 g/kg
	Ethoxylated Tallow Amine	61791-26-2	10-30 %w/w
	Stabilisers (non-hazardous)		Balance

## 3. HAZARDS IDENTIFICATION

Risk of serious damage to eyes.

**Other Information** Poisons Schedule 5

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person to fresh air until recovered.  
**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 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.  
Do not give anything by mouth to a semi-conscious or unconscious person.  
Rinse mouth thoroughly with water.  
**Skin** Wash affected areas thoroughly with soap and water.  
If irritation persists, seek medical advice.  
**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
Seek medical advice immediately.  
**First Aid Facilities** If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).  
**Advice to Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media** Water, foam, carbon dioxide or dry chemical.



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**Hazardous** Keep upwind.  
**Combustion Products** This product, or spray solutions of this product, react with galvanised steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas which may form a highly flammable or explosive gas mixture.  
If involved in a major fire, could evolve oxides of nitrogen or phosphorus.  
**Protective Equipment** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Recover the product by sweeping up or vacuuming without raising dust.  
Collect in sealed open top containers for disposal.  
Final clean-up with degreasing agent or detergent is advised.

**Environmental Precautions** Prevent from entering drains, waterways or sewers.

## 7. HANDLING AND STORAGE

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

**Storage** Store in the closed, original container in a dry, well ventilated area out of direct sunlight.  
Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**Exposure Limits** No exposure standards have been established for this product by Worksafe Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m<sup>3</sup>.

**Personal Protective Equipment** When preparing product for use wear elbow-length PVC gloves and face shield or goggles.

**Eng. Controls** No special ventilation required.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Pale yellow granules

**Odour** Musty odour

**Melting Point** N/A

**Solubility in Water** Soluble in water.

**Boiling Point** N/A

**Specific Gravity (H<sub>2</sub>O=1)** 0.6 g/ml (bulk density)

**Vapour Pressure** N/A

**Vapour Density (Air=1)** N/A

**Volatile Component** N/A

**Flash Point** N/A

**Flammability** Non combustible material.

**Ignition Temperature** N/A

**Flammable Limits** N/A

**LEL**

**Explosion Properties** N/A

## 10. STABILITY AND REACTIVITY



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**Hazardous Polymerization** Hazardous polymerisation is not possible.

**Materials to Avoid** Corrosive to mild steel, galvanised steel and zinc.  
Non corrosive to stainless steel, polyethylene and plastics.  
Do not mix, store or apply the product or spray solutions of the product in galvanised steel or unlined steel (except stainless steel) containers or spray tanks.

## Hazardous Reaction

## 11. TOXICOLOGICAL INFORMATION

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

**Inhalation** When applying the product as a spray avoid breathing in spray mists.  
May cause irritation to mucous membranes and respiratory tract.

**Ingestion** The concentrate is of low toxicity if swallowed.  
Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.  
Possible symptoms of exposure include: nausea, vomiting and gastrointestinal discomfort and diarrhoea.

**Skin** May irritate the skin.

**Eye** The concentrate will cause severe irritation and possible damage unless washed off immediately.

**Chronic Effects** No information available, no chronic effects expected.

**Acute Toxicity - Oral** LD50 (rat) 2814 mg/kg for a similar formulation

**Acute Toxicity - Dermal** LD50 (rabbit) >5000 mg/kg for a similar formulation

**Other Information** The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 30 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, 'ADI List', TGA, August 2003).

This material contains less than 0.4% sodium sulphite. In sulphite-sensitive individuals, skin reactions have been reported following dermal exposures and respiratory reactions have been reported on ingestion of food, or on ingestion or inhalation of medicines which contain related sulphiting agents (bisulphites or metabisulphites) as preservatives. Individuals with asthma may be more prone to these types of reactions.

## 12. ECOLOGICAL INFORMATION

**Known Harmful Effects on the Environment** Harmful to fish and other aquatic organisms (mainly due to the surfactant).

**Other Precautions** Do not spray in high winds.  
Do not contaminate dams, waterways or sewers with this product.

**Environ. Protection** Glyphosate is a non-selective contact herbicide.  
Spray drift can cause damage.

**Persistence / Degradability** Adsorption studies indicate that glyphosate has very low mobility.  
Average field half life of glyphosate is 47 days.

**Acute Toxicity - Fish** The following is data for a similar product.  
LC50 (96 hr) for rainbow trout is 3 mg/l

**Acute Toxicity - Other Organisms** The following data is for the active ingredient, glyphosate.  
Birds: Not toxic to birds. LD50 for bobwhite quail is >3850 mg/kg  
Bees: Not toxic to bees. LD50 >100 µg/bee.



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## 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 (ChemCollect).

**Container Disposal** Do not use this container for any other purpose.  
Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in landfill.

## 14. TRANSPORT INFORMATION

It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.

**U.N. Number** None Allocated

**Proper Shipping Name** None Allocated

**DG Class** None Allocated

**Hazchem Code** None Allocated

**Packing Group** None Allocated

**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

**Risk Phrase** R41 Risk of serious damage to eyes.

**Safety Phrase** S13 Keep away from food, drink and animal feeding stuffs.  
S2 Keep out of reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/39 Wear suitable protective clothing and eye/face protection.

**Poisons Schedule** S5

**Hazard Category** Irritant

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

**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

**Contact Person/Point** Normal Hours: Mr Volker Maier Phone: (03) 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions Highlighted** First Issue  
...End Of MSDS...