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Infosafe No

Issue Date : November 2006

ISSUED by NUFARM

Product Name : Roundup Ready® Herbicide

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Roundup Ready® Herbicide	
Product Code	0904	
Product Type	Group M Herbicide	
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/Fax Number	Tel: (03) 9282-1000 Fax: (03) 9282-1001	
Recommended Use	For the control of many annual and perennial weeds in Roundup Ready® and Roundup Ready Flex® crops and other situations as per the Directions for Use table on the label.	
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. HAZARDS IDENTIFICATION

Hazard Classification	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.	
Risk Phrase(s)	R41 Risk of serious damage to eyes.	
Safety Phrase(s)	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.	
Other Information	Poisons Schedule S5	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization	Solid		
Ingredients	Name	CAS	Proportion
9		1071-83-6	690 g/kg
	Ethoxylated Tallow Amine	61791-26-2	10-30 %w/w
	Stabilisers (non-hazardous)		Balance

4. FIRST AID MEASURES

Inhalation	Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and 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 (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.



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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 Advice to Doctor	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable	Water, foam, carbon dioxide or dry chemical.		
Extinguishing Media			
Hazards from	Keep upwind.		
Combustion	This product, when wet, or spray solutions of this product, react with		
Products	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 and phosphorous.		
Special Protective	Breathable air apparatus may have to be worn if material is involved in fires		
Equipment for fire	especially in confined spaces.		
fighters			
Hazchem Code	None Allocated		
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 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

Precautions for Safe	For personal protective equipment (PPE) and hygiene advice, refer Section 8.		
Handling			
Conditions for Safe	Store in the closed, original container in a dry, well ventilated area out of		
Storage	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

National Exposure Standards	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/m3.	
Engineering Controls	No special ventilation required.	
Personal Protective Equipment	When preparing product for use wear elbow-length PVC gloves and face shield or 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	NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials. By 1st September, 2005 all users must have received such training.	

9. PHYSICAL AND CHEMICAL PROPERTIES

FormSolidAppearanceCaramel coloured granulesOdourMusty odour



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Solubility in Water	Soluble in water.
Specific Gravity	0.6 g/ml (bulk density)
Vapour Pressure	N/A
Vapour Density (Air=1)	N/A
Volatile Component	N/A
Flammability	Non combustible material.

10. STABILITY AND REACTIVITY

Incompatible	When wet, corrosive to mild steel, galvanised steel and zinc.	
Materials	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 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.	
Inhalation	When applying the product as a spray avoid breathing in spray mist. 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 product	
Acute Toxicity - Dermal	LD50 (rabbit) >5000 mg/kg for a similar product	
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, June 2006). 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 ingention 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

Persistence /	Adsorption studies indicate that glyphosate has very low mobility.		
Degradability	Average field half life of glyphosate is 47 days.		
Known Harmful	Harmful to fish and other aquatic organisms (mainly due to the surfactant).		
Effects on the			
Environment			
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, read the label for more information.		



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Acute Toxicity - Fish Acute Toxicity - Other Organisms	The following is data for a similar product. LC50 (96 hr) for rainbow trout is 3 mg/l 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.			
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. Shake the last amount of product from the bag into application equipment. Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in landfill. Empty containers and product should not be burnt.			

14. TRANSPORT INFORMATION

Information U.N. Number	materials, animal feedstuffs, seed or fertilisers during transport. 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

Poisons Schedule	S5		
Packaging & Labelling	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING		
Hazard Category	Irritant		
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: 1	Mr Volker Maier	Phone: (03) 9282 1000
	After Hours:	Shift Supervisor	Phone: 1800 033 498
Revisions	The MSDS was re	viewed. Minor changes were	e made to the information.
Highlighted			
Other Information	® Registered trademark of Monsanto		
	End Of MSDS.		