



Material Safety Data Sheet

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Infosafe No. NU0GU Issue Date : August 2007 ISSUED by NUFARM

Product Name : **MONZA® Herbicide**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name MONZA® Herbicide
Product Code 0620
Product Type Group B Herbicide
Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address 103-105 Pipe Road Laverton North
Victoria 3026 Australia
Emergency Tel. 1800 033 498 (24hr Australia)
Telephone/Fax Number Tel: +61 3 9282-1000
Fax: +61 3 9282-1001
Recommended Use Selective herbicide for the control of certain weeds in wheat and triticale.
Other Information

2. HAZARDS IDENTIFICATION

Hazard Classification NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.
Other Information Poisons Schedule : Not Scheduled

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid
Ingredients

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Sulfosulfuron	141776-32-1	750 g/kg
Other ingredients (considered non-hazardous)		10-30 %

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.
Do not give anything by mouth to a semi-conscious or unconscious person.
Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
Skin Wash affected areas thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Seek medical advice if irritation develops or persists.
First Aid Facilities 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 Water fog, foam, carbon dioxide or dry chemical.
Avoid strong water jets - airborne dusts may form a flammable dust cloud.
Hazards from Combustion Products May emit hazardous smoke and fumes if involved in fires or exposed to extreme heat.
Special Protective Equipment for fire fighters Breathable air apparatus must be worn if material is involved in fires especially in confined spaces.



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Specific Hazards This product contains a high proportion of an organic solid. Large accumulations of dust and fines associated with industrial processing of bulk material may be a dust explosion hazard.

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.

Conditions for Safe Storage Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been set for this product or the active ingredients.

Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate.

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 face shield or 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 NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Solid

Appearance Off-white free flowing granules.

Solubility in Water Disperses in water.

pH Value 5.5 (20°C, 10g/L)

Vapour Pressure 0.000088 mPa @ 25°C

Octanol/Water Partition Coefficient Kow Log P is -0.77 (pH7)

Flammability Combustible

Other Information pKa is 3.51

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Hazardous Reactions Keep away from strong oxidising agents.

Hazardous Polymerization Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

Inhalation Inhalation of dust may cause discomfort, but health effects are unlikely.

Ingestion The concentrate is of low toxicity if swallowed.



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Skin	Not a skin irritant and not harmful by dermal exposure.
Eye	May cause some discomfort if contact is prolonged.
Chronic Effects	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
Acute Toxicity - Oral	LD50 (rat) >5000 mg/kg for a similar formulation
Acute Toxicity - Dermal	LD50 (rat) >5000 mg/kg for a similar formulation
Acute Toxicity - Inhalation	LC50 (rat) (4hr) (no deaths) >3.2 mg/l for a similar formulation
Eye Irritation	Not an eye irritant.
Skin Irritation	Not a skin irritant.
Skin Sensitisation	Product is not a skin sensitiser.
Other Information	The Australian Acceptable Daily Intake (ADI) for sulfosulfuron for a human is 0.2 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 24 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, September 2006).

12. ECOLOGICAL INFORMATION

Persistence/ Degradability	Half life in soil is typically 11 - 47 days.
Acute Toxicity - Fish	The following is data for the active ingredient, sulfosulfuron. LC50 (96 hr) for rainbow trout is >95 mg/l.
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia magna is >96 mg/l.
Acute Toxicity - Algae	EC50 (72hr) for Selenastrum capricornutum 0.62 mg/l for a similar formulation.
Acute Toxicity - Other Organisms	Birds: Not toxic to birds. LD50 for mallard duck and bobwhite quail is >2250 mg/kg Bees: Not toxic to bees. LD50 >128 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. Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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.
UN Number (Sea Transport)	3077
IMO Class/Packing Group	Class 9; Packing Group III
IMO Marine Pollutant	Marine Pollutant
IMO Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains sulfosulfuron)



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15. REGULATORY INFORMATION

Poisons Schedule	Not Scheduled
Packaging & Labelling	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	The MSDS was reviewed. Minor changes were made to the information. The MSDS is now issued in a 16 header format.
Other Information	© Registered trademark of Monsanto ...End Of MSDS...