

Material Safety Data Sheet

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Infosafe No. 3NU3A Issue Date: June 2004 ISSUED by NUFARM

Product Name: SPINNAKER ® 700 WDG Herbicide

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name SPINNAKER ® 700 WDG Herbicide

Product Code 0758

Product Use For the pre- or post-emergence control of certain weeds in Centrosema (Cavalcade),

chickpeas, faba beans, field peas, lucerne, mung beans, peanuts, serradella,

soybeans and subterranean clover as per the Directions for Use table.

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 Tel: (03) 9282-1000 Fax: (03) 9282-1001

Number

Product Type Group B 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 Solid

Characterization

Ingredients Name CAS Proportion

 Dispersants
 to 100%

 Imazethapyr
 81335-77-5
 700 g/Kg

3. HAZARDS IDENTIFICATION

Irritating to eyes.

Other Information Poisons Schedule 5

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.

Skin If skin contact occurs, remove contaminated clothing and wash skin thoroughly with

water.

Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least

15 minutes.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

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

Avoid using large volumes of water which would spread the product. Avoid direct water jets; airborne dusts may create an explosion hazard.

Hazardous If involved in a major fire, could evolve oxides of carbon or nitrogen.

Combustion Products

Protective Equipment Breathable air apparatus may have to be worn if material is involved in fires

especially in confined spaces.

6. ACCIDENTAL RELEASE MEASURES



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Spills & Disposal Recover the product by sweeping up or vacuuming without raising dust.

Pick up with a shovel and broom.

Collect spilled material and waste in sealable open-top type containers for

disposal.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Environmental Prevent from entering drains, waterways or sewers.

Precautions

7. HANDLING AND STORAGE

Handling Avoid generating dusts while handling the product and mixing.

Do not mix, store or apply the product or spray solutions of the product in aluminium, galvanised steel or unlined steel containers or spray tanks.

Storage Store in the closed, original container in a dry, cool well ventilated area out of

direct sunlight.

Keep away from sources of ignition and protect from exposure to fire and heat.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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

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

Personal Protective When opening the container, preparing spray and using the prepared spray wear

 $\textbf{Equipment} \qquad \qquad \text{cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length} \\$

PVC gloves and goggles.

Avoid generating and inhaling dusts.

Beware of dust explosions - do not allow dust to accumulate in ventilation

systems.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Tan granules

Odour Faint rubbery odour Solubility in Water Disperses in water.

pH Value 3.46 (2% aqueous solution)

Partition co-efficient, Kow Log P is 1.04 at pH5; 1.49 at pH7 and 1.20 at pH9

n-octanol/water

Flammability Danger of dust explosion.

Other Information pKa is 3.9

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Hazardous polymerisation is not possible.

Polymerization

Materials to Avoid 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.

No compatible with aluminium.

Hazardous Reaction Keep away from strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

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

Information followed.



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Inhalation The components of the product are of low volatility and no adverse effects are

expected from handling the concentrate.

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Skin Prolonged contact with the concentrate may cause irritation.

Eye The concentrate will cause irritation of the eyes.

Chronic Effects Based on available data, repeated exposures are not anticipated to cause

additional significant adverse effects.

Reproductive Toxicity Data indicates no reproductive effects.

Mutagenicity Data indicates no mutagenic effects.

Carcinogenicity Data indicates no carcinogenic effects.

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

Acute Toxicity - LD50 (rat) >5000 mg/kg for imazethapyr

Dermal

Acute Toxicity - LC50 (rat) (4hr) >6.8 mg/l for imazethapyr

Inhalation

Eye Irritation The product is 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 imazethapyr for a human is 2.8

mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 276 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).

12. ECOLOGICAL INFORMATION

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

Acute Toxicity - Fish The following is data for the active ingredient, imazethapyr.

Not toxic to fish. LC50 (96 hr) for rainbow trout is 340 mg/l.

LC50 (96 hr) for bluegill sunfish is 420 mg/l. LC50 (96 hr) for channel catfish is 240 mg/l.

Acute Toxicity -

EC50 (48hr) is >1000 mg/l.

Daphnia

Acute Toxicity - Other Birds: Not toxic to birds. LD50 for quail is >2150 mg/kg

Organisms 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 (ChemCollect).

Container Disposal Do not use this container for any other purpose.

Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in

landfill in accordance with local regulations.

If on-site container disposal is necessary, triple rinse empty container with water, add rinsate to the spray tank. Puncture top, sides and bottom, crush and bury in an approved landfill or bury with at least 500 mm of soil cover away from

pasture and crop areas, water supplies and houses.

Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

U.N. Number None Allocated

DG Class None Allocated

Hazchem Code None Allocated



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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

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Risk Phrase R36 Irritating to eyes.

Safety Phrase S13 Keep away from food, drink and animal feeding stuffs.

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S2 Keep out of reach of children. S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

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medical advice.

S46 If swallowed, seek medical advice immediately and show this container or

label.

Poisons Schedule S5

Hazard Category Irritant Packaging & CAUTION

Labelling KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

16. OTHER INFORMATION

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Contact Person/Point Normal Hours: Mr Volker Maier Phone: (03) 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

References Handbook of Pesticide Toxicology, vol.2

Revisions Highlighted First Issue

...End Of MSDS...