



Material Safety Data Sheet

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Infosafe No. 3NU4X Issue Date : November 2004 ISSUED by NUFARM

Product Name : **Pyramin® Selective Herbicide**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name Pyramin® Selective Herbicide
Product Code 0710
Product Use A pre-emergent herbicide for control of annual broad leaved weeds and various grasses in red beet, silver beet and fodder beet, as per the Directions for Use table on the label.
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 C 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

Ingredients	Name	CAS	Proportion
	Chloridazon	1698-60-8	650 g/kg
	Dispersants and fillers		Remainder

3. HAZARDS IDENTIFICATION

Other Information Poisons Schedule : Not Scheduled

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.
Obtain medical advice.
Skin Wash affected areas thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
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.
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 fog, foam, carbon dioxide or dry chemical.
Avoid strong water jets - airborne dusts may be an explosion hazard.
Hazardous Combustion Products If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly hydrogen chloride.
Protective Equipment Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Other Information Prevent fire water from entering drains or water bodies.

6. ACCIDENTAL RELEASE MEASURES



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- 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.
- Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.
If the possibility of dust generation exists, wear a suitable respirator.

7. HANDLING AND STORAGE

- Handling** Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.
Avoid generating dusts while handling the product and mixing.
If dusts are generated, it is advisable to wear a dust mask, refer Section 8.
- Storage** Store in the closed, original container in a dry, well ventilated area, as cool as possible.
Do not store for prolonged periods in direct sunlight.
Protect from temperatures above 40°C. Properties of the product may change if stored above this temperature for extended periods.
- Other Information** Always read the label and any attached leaflet before use.

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/m³.
- Respiratory Protection** If dusts are present, wear a class P2 dust mask.
- Personal Protective Equipment** It is good practice to wear suitable personal protective equipment (PPE).
When using the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves, goggles and half face piece respirator.
Class P2 filter cartridge.
- Eng. Controls** Use in a well ventilated area only.
Avoid generating and inhaling dusts.
- 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. By 1st September, 2005 all users must have received such training.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** Beige to light brown powder
- Odour** Faint
- Solubility in Water** Disperses in water.
- Vapour Pressure** <0.01 mPa @ 20°C for chloridazon
- Partition co-efficient, n-octanol/water** Kow Log P is 1.19 (pH7)
- Flammability** Not flammable
Danger of dust explosion.
May form dust clouds.
- Ignition Temperature** 420°C
- Flammable Limits LEL** 1.1% for cyclohexanone
- Flammable Limits UEL** 9.4% for cyclohexanone
- Other Information** Particle size: 99.5% finer than 45 micron;
minimum ignition energy >10 - < 20 mJ



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10. STABILITY AND REACTIVITY

Stability Pyramin is stable at temperatures below 40°C.

Hazardous Hazardous polymerisation is not possible.

Polymerization

Hazardous Reaction Keep away from strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

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

Inhalation Breathing in high concentrations of dusts or aerosols of this material may cause nausea and irritation of the nose, throat and respiratory tract.

Ingestion Ingestion of a large quantity of the product may lead to effects such as respiratory depression; convulsions may occur.

Skin May irritate the skin.

Eye May irritate the eyes.

Chronic Effects Chronic feeding studies in animals do not indicate any cumulative toxicity and show that the compound is neither a carcinogen nor a teratogen.

Acute Toxicity - Oral LD50 (rat, male) 3830 mg/kg for chloridazon
LD50 (rat, female) 2140 mg/kg for chloridazon

Acute Toxicity - Dermal LD50 (rat) >2000 mg/kg for chloridazon

Acute Toxicity - Inhalation LC50 (rat) (4hr) >5.4 mg/l for chloridazon

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 chloridazon for a human is 0.04 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 4.1 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 2004).

12. ECOLOGICAL INFORMATION

Other Precautions Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

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

Persistence / Degradability Half life in soil is typically 6 - 8 weeks, (moist soil).

Acute Toxicity - Fish LC50 (96 hr) for trout is 32 - 46 mg/l for chloridazon
LC50 (96 hr) for bluegill sunfish is 93 mg/l for chloridazon

Acute Toxicity - Daphnia LC50 (48 hr) for daphnia is 132 mg/l for chloridazon.

Acute Toxicity - Other The following data is for the active ingredient, chloridazon.

Organisms Birds: Not toxic to birds. LD50 for bobwhite quail is >2000 mg/kg
Bees: Not toxic to bees. LD50 >200 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).



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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

U.N. Number 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 Not Scheduled
Packaging & Labelling 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

® Registered trademark of BASF
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...