



Infosafe No™ 3NU4X Issue Date :December 2009 ISSUED by NUFARM CS: 1.4.21

Product Name **Pyramin® Selective Herbicide**

Not classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Pyramin® Selective Herbicide
Product Code 0710
Product Type Group C 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 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.
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 Not classified as hazardous
NON-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) Not classified as hazardous
Other Information Poisons Schedule : Not Scheduled

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

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

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 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 be an explosion hazard.

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Hazards from Combustion	If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly hydrogen chloride.
Products	
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
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.
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

Precautions for Safe 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.
Conditions for Safe 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

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/m ³ .
Engineering Controls	Use in a well ventilated area only.
Respiratory Protection	Avoid generating and inhaling dusts. 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.
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	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Appearance	Beige to light brown powder
Odour	Faint
Solubility in Water	Disperses in water.
Vapour Pressure	<0.01 mPa @ 20°C for chloridazon
Octanol/Water Partition Coefficient	Kow Log P is 1.19 (pH7)
Flammability	Not flammable Danger of dust explosion. May form dust clouds.
Auto-Ignition Temperature	420°C

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Flammable Limits - Lower 1.1% for cyclohexanone

Flammable Limits - Upper 9.4% for cyclohexanone

Other Information Particle size: 99.5% finer than 45 micron;
minimum ignition energy >10 - < 20 mJ

10. STABILITY AND REACTIVITY

Chemical Stability Pyramin is stable at temperatures below 40°C.

Hazardous Reactions Keep away from strong oxidising agents.

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 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 Office of Chemical Safety, 'ADI List', December 2008).

12. ECOLOGICAL INFORMATION

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

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.

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

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

Acute Toxicity - Algae EC50 (72hr) for aquatic plants is 0.91 mg/l.

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



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Container Disposal 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®).
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 road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.
For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.

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 chloridazon)

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

Date of preparation or last revision of MSDS Revised 01/12/2009

Contact Person/Point Normal Hours: Mr Volker Maier Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The MSDS was reviewed. Minor changes were made to the information. See section 14 for transport information.

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...End Of MSDS...

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