

Infosafe No.

Material Safety Data Sheet

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ISSUED by NUFARM

3NU3F Product Name: PARAGON® Herbicide

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

June 2004

Product Name PARAGON® Herbicide

Product Code 0704

Product Use For the control of certain broadleaved weeds in winter cereals as indicated in the

Directions for Use table.

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780) **Company Name**

Issue Date:

Address 103-105 Pipe Road Laverton North

Victoria 3026 Australia

Emergency Tel. 24hr 1800 033 498

Tel: (03) 9282-1000 Fax: (03) 9282-1001 Telephone/Telex

Number

Product Type Group F I 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 Liquid

Characterization

Ingredients Name CAS **Proportion**

MCPA present as the ethyl hexyl 29450-45-1 500 g/L

Picolinafen 137641-05-5 50 g/L Hydrocarbon solvent 64742-94-5 <10%

3. HAZARDS IDENTIFICATION

Harmful by inhalation, in contact with skin and if swallowed.

Other Information Poisons Schedule 6

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.

If symptoms develop or persist, seek medical advice.

If swallowed do NOT induce vomiting; seek medical advice immediately and show this Ingestion

> 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.

The above first aid instructions are mandated by the Commonwealth Department of

Health and Aged Care via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about 20ml or one tablespoon) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED,

preferably based on MEDICAL ADVICE if a physician can be contacted by phone. care must be taken to prevent vomit from being inhaled. Do not give anything by

mouth to a semi-conscious or unconscious person.

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

Seek medical advice if irritation develops or persists.



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First Aid Facilities If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26

(Australia).

Advice to Doctor Treat symptomatically.

If vomiting occurs, solvent present may cause pulmonary pneumonitis.

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.

Hazardous Although material is not flammable, the concentrate is combustible.

Combustion Products If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and

possibly hydrogen chloride, phosgene, hydrogen fluoride or fluorinated hydrocabons

Emergency Action in If exposed to fire, keep container cool by spraying with water.

case of Fire

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

Spills & Disposal Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as

vermiculite).

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

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

Environmental

This product is a herbicide and spills can damage crops, pastures and desirable

Precautions vegetation.

Use earthen bunds or absorbent bunding to prevent spreading of spillage.

Prevent from entering drains, waterways or sewers.

Clean-up Methods -Large Spillages

Place damaged containers in recovery bins (if available) and return to

manufacturer.

If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas before absorbing remaining material into vermiculite or other absorbent.

7. HANDLING AND STORAGE

Storage Store in the closed, original container in a cool, well ventilated area.

Do not store for prolonged periods in direct sunlight.

Other Information Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits No exposure standard for this product has been set, however, an exposure standard

has been recommended by the supplier for the solvent at 143ppm or 1200 mg/m3.

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 goggles.

Use in a well ventilated area only. **Eng. Controls**

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** 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

Training all users must have received such training.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Brown liquid



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Odour Slightly aromatic odour Solubility in Water Forms an emulsion in water.

Specific Gravity

1.02 - 1.08

(H2O=1)

pH Value 3 - 5 Volatile Component <8% Flash Point >105°C

Flammability Combustible liquid C1.

Ignition Temperature 260°C

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Hazardous Hazardous polymerisation is not possible.

Polymerization

Hazardous Reaction Keep away from strong oxidising agents.

Violent reactions between this product and oxidising agents are possible.

11. TOXICOLOGICAL INFORMATION

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

Information followed.

Inhalation Breathing vapour can result in headaches, dizziness and possible nausea.

Ingestion Ingestion of the concentrate in relatively large amounts can result in headache,

nausea, lethargy, motor weakness and incoordination.

If aspirated into the lung, e.g. from vomiting, the presence of hydrocarbon

solvent may result in chemical pneumonitis or other lung damage.

Skin Prolonged contact with the concentrate may result in absorption of MCPA 2EHE in

harmful amounts.

Prolonged contact with the concentrate can cause defatting of the skin and may

result in dermatitis.

Eye The concentrate may cause irritation after short contact with the eyes, but

permanent damage is not anticipated.

Chronic Effects Regular exposure may result in effects on liver and kidneys.

Acute Toxicity - Oral LD50 (rat) >1768 mg/kg for the formulated product

Acute Toxicity - LD50 (rat) >4000 mg/kg for the formulated product

Dermal

Acute Toxicity - LC50 (rat) (4hr) >5.18 mg/l for the formulated product

Inhalation

Eye Irritation Moderate eye irritant.

Skin Irritation Mild to moderate skin irritant.

Skin Sensitisation Product is not a skin sensitiser.

Other Information The Australian Acceptable Daily Intake (ADI) for MCPA for a human is 0.01

mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 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, August 2003).

ADI for picolinafen is 0.007 mg/kg/day, NOEL 1.4 mg/kg/day.

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.



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Acute Toxicity - Fish LC50 (96 hr) for rainbow trout is 3.2 mg/l for MCPA 2EHE

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LC50 (96 hr) for rainbow trout is 0.281 mg/l for picolinafen

The acute toxicity to fish of MCPA 2EHE is above its solubility in water.

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Acute Toxicity -LC50 (48 hr) for daphnia is >190 mg/l for MCPA acid. LC50 (48 hr) for daphnia is 0.612 mg/l for picolinafen. Daphnia

Acute Toxicity - Other Not toxic to bees. Not toxic to birds. **Organisms**

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.

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for

collection in the program.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage. 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 **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

Risk Phrase R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

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

S2 Keep out of reach of children.

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

label.

Poisons Schedule Hazard Category Harmful Packaging & POTSON

KEEP OUT OF REACH OF CHILDREN 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



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

After Hours: Shift Supervisor Phone: 1800 033 498

 $Revisions \ Highlighted \ {\tt First \ Issue}$

...End Of MSDS...