



5 Page: 1 of

Infosafe No™ 3NUHV ISSUED by NUFARM Issue Date : May 2015

Product Name RIFLE 440 Herbicide

Classified as hazardous

#### 1. Identification

**GHS Product** RIFLE 440 Herbicide

**Identifier** 

0885 **Product Code** 

Group D Herbicide **Product Type** 

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

103-105 Pipe Road Laverton North **Address** 

Victoria 3026 Australia Tel: +61 3 9282-1000 Telephone/Fax Fax: +61 3 9282-1001 Number

1800 033 498 (24hr Australia) **Emergency phone** 

number

Recommended use of For the control of wireweed, annual grasses (including annual ryegrass) and certain broadleaf weeds in various crops as shown in the Directions For Use the chemical and

Table on the label. restrictions on use

This Safety Data Sheet describes the properties of the concentrated product. **Other Information** 

The physical properties and the assessments may not apply to the properties of

the product once it has been diluted for application.

#### 2. Hazard Identification

SS-1 Sensitization - Skin: Category 1 GHS classification of

AH1 Aspiration Hazard: Category 1 the

SE-3NARC STOT Single Exposure Category 3 (narcotic) substance/mixture

CA2 Carcinogenicity: Category 2

ED2A Eye Damage/Irritation: Category 2A

Signal Word (s) DANGER

Hazard Statement (s) H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

AUH066 Repeated exposure may cause skin dryness or cracking

H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H319 Causes serious eye irritation.

P101 If medical advice is needed, have product container or label at hand. General

P102 Keep out of reach of children. **Precautionary** 

P103 Read label before use. Statement (s) Exclamation mark, Health hazard Pictogram (s)





P202 Do not handle until all safety precautions have been read and understood. **Precautionary** P261 Avoid breathing spray. statement -

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, clothing, eye and face protection. P264 Wash hands and exposed skin thoroughly after handling.

P308+P313 IF exposed or concerned: Get medical advice/attention. **Precautionary** P302+P352 IF ON SKIN: Wash with plenty of soap and water.

statement -

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. Response

P363 Wash contaminated clothing before reuse.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.

Poisons Schedule S5 Other Information

Prevention

Print Date: 19/05/2015 CS: 1.7.2





5 Page: 2 of

Infosafe No™ 3NUHV ISSUED by NUFARM Issue Date : May 2015

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### 3. Composition/information on ingredients Liquid

Chemical

Characterization

**Ingredients** Name CAS Proportion

> Pendimethalin technical 40487-42-1 440 g/L 501 g/L Hydrocarbon Liquid 64742-94-5 Other ingredients 10-30 %

(considered non-hazardous)

#### 4. First-aid measures

Inhalation Remove to fresh air, apply artificial respiration if necessary.

Give water or milk to drink. DO NOT induce vomiting. Ingestion Wash affected areas thoroughly with soap and water. Skin Remove contaminated clothing and launder before re-use.

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

least 15 minutes.

**First Aid Facilities** If poisoning occurs, contact a doctor or the Poisons Information Centre

(Australia) on 13 11 26.

Treat symptomatically. Advice to Doctor

If vomiting occurs, solvent present may cause pulmonary pneumonitis.

#### 5. Fire-fighting measures

Water fog, foam, carbon dioxide or dry chemical. Suitable

extinguishing media

Hazards from If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and

possibly cyanides. Combustion

**Products** 

**Special Protective** Breathable air apparatus may have to be worn in confined spaces.

**Equipment for fire** 

fighters

STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES. Other Information

#### 6. Accidental release measures

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

as vermiculite).

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

disposal.

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

### 7. Handling and storage

**Precautions for Safe** Handling

For personal protective equipment (PPE) and hygiene advice, refer Section 8. Pendamethalin is coloured and will strongly stain skin and clothing. skin has been exposed to the product, thorough washing with soap and water will remove any excess product. The colour on the skin is not deep and will

naturally disappear over a few days.

Conditions for safe storage, including

incompatabilities

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

out of direct sunlight.

Do not store below 5°C. Extended storage below 5°C can result in the any

formation of crystals on the bottom of the container. If crystallisation does

occur, store the container on its side at room temperature and rock

occassionally until crystals re-dissolve.

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

#### 8. Exposure controls/personal protection

Occupational exposure limit values No exposure standard has been established for this product.

The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m3; 15ppm TWA, as total hydrocarbon.

Print Date: 19/05/2015 CS: 1.7.2





5 Page: 3 of

Infosafe No™ 3NUHV ISSUED by NUFARM Issue Date : May 2015

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**Appropriate** 

engineering controls

Respiratory

Do not inhale spray mist.

Protection

**Personal Protective Equipment** 

When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, nitrile or elbow-length PVC gloves and face shield or

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

goggles.

**Hygiene Measures** 

Wash concentrate from skin and eyes immediately.

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

Liquid Form

Black clear liquid with yellow-orange tinge Appearance

Solvent odour Odour

Some crystallisation occurs between 0 and -7°C **Melting Point** 

183-210°C (for solvent) **Boiling Point** Forms an emulsion in water. Solubility in Water

1.075 **Specific Gravity** 

6.0 - 6.5 (1% in water)pН

Pendimethalin 1.94 mPa @ 25°C. Vapour Pressure

**Volatile Component** 

Partition Coefficient: Kow Log P is 5.2 (pH 7.0)

n-octanol/water

**Flash Point** >65°C

Combustible liquid C1. **Flammability** 

### 10. Stability and reactivity

Prolonged reaction with water can cause slow decomposition and the formation **Conditions to Avoid** 

of acid which may attack metal drums. If a part open drum is to be stored,

ensure that no water has been added to the drum.

Technical pendimethalin (before formulation) has exhibited exothermic

decomposition at around 200°C. Avoid heating the product to high

temperatures.

Possibility of

hazardous reactions

Keep away from strong oxidising agents, may react violently.

Hazardous Hazardous polymerisation is not possible.

**Polymerization** 

#### 11. Toxicological Information

Acute Toxicity - Oral LD50 (rat) >5000 mg/kg for pendimethalin LD50 (rat) >2000 mg/kg for pendimethalin Acute Toxicity -

**Dermal** 

LC50 (rat) (4hr) > 320 mg/1

**Acute Toxicity -**

Inhalation

The concentrate is of low toxicity if swallowed. Ingestion

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

result in chemical pneumonitis or other lung damage.

High vapour concentrations of the solvent while handling the concentrate are Inhalation

irritating to the eyes and the respiratory tract, may cause headaches and

dizziness, and may have other central nervous system effects.

When applying the product as a spray avoid breathing in spray mist.

Skin The concentrate is not considered a serious toxic hazard.

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

Print Date: 19/05/2015 CS: 1.7.2





Page: 4 of 5

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may result in dermatitis.

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

permanent damage is not anticipated.

Skin Sensitisation Prolonged and repeated skin contact may result in skin sensitisation.

**Carcinogenicity**A marked depression in body weight and a statistically significant increase in benign thyroid tumors (follicular adenomas) were observed at the highest dose

level (5000ppm) in a lifetime (24 month) rat study, not considered to be

relevant to humans. (1)

Reproductive Toxicity Data indicates no reproductive effects.

Data indicates no teratogenic effects.

Chronic Effects

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

additional significant adverse effects.

The product is an eye irritant.

Serious eye damage/irritation

Mutagenicity Data indicates no mutagenic effects.

Skin Not a skin irritant.

Skin corrosion/irritation

Other Information

The Australian Acceptable Daily Intake (ADI) for pendimethalin for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based

on the NOEL of 12 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', June 2014).

#### 12. Ecological information

**Known Harmful** 

The product is a marine pollutant for sea transport.

**Effects on the Environment** 

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

Do not spray in high winds.

Environmental

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

Protection

Acute Toxicity - Fish Toxic to fish. LC50 (96hr) for rainbow trout is 0.14 mg/l.

LC50 (96hr) for bluegill sunfish is 0.2 mg/l. LC50 (96hr) for channel catfish is 0.42 mg/l.

Acute Toxicity - Other Organisms

Dietary LC50 bobwhite quail is 4187 mg/kg LD50 for mallard duck is 10388 mg/kg 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 (ChemClear®).

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

Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.

If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility.

If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations.

Empty containers and product should not be burnt.

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.

Print Date: 19/05/2015 CS: 1.7.2





5 Page: 5 of

Infosafe No™ 3NUHV Issue Date : May 2015 ISSUED by NUFARM

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Replace cap, close all valves and return to the point of supply for refill or storage.

14. Transport information

It is good practice not to transport agricultural chemical products with **Transport** 

food, food related materials and animal feedstuffs. Information

Considered non dangerous for road and rail transport (in packaging, including Storage and IBCs not greater than 3000 Lt each) by the Australian Code for the Transport **Transport** 

of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.

**UN Number (Sea** Transport)

3082

**IMO Class/Packing** 

Class 9; Packing Group III

Group

Marine Pollutant **IMO Marine** 

**Pollutant** 

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. **IMO Proper** 

(contains Pendimethalin) **Shipping Name** 

15. Regulatory information

**Poisons Schedule** 

Packaging & CAUTION

KEEP OUT OF REACH OF CHILDREN Labelling

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

This product is registered with the Australian Pesticides and Veterinary Other Information

Medicines Authority (APVMA). APVMA product number: 54599.

16. Other Information

Revised 12/05/2015. Date of preparation

or last revision of

This SDS replaces version dated February 2012.

SDS

European Union review report for the active substance Pendimethalin Literature

7477/V1/98 final, dated 13th January 2003. References

Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 Contact After Hours: Shift Supervisor Phone: 1800 033 498 Person/Point

The SDS was reviewed to include GHS requirements. Revisions

Highlighted

...End Of MSDS...

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CS: 1.7.2 Print Date: 19/05/2015