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Infosafe No™ 3NUGN Issue Date : May 2014 ISSUED by NUFARM

Product Name GRUNT 750 WDG Herbicide

Classified as hazardous

1. Identification

GHS Product

GRUNT 750 WDG Herbicide

Identifier

0930 **Product Code**

Group C 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

Emergency phone

the chemical and

restrictions on use

Other Information

Recommended use of

number

1800 033 498 (24hr Australia)

For the control of certain sedges, annual and perennial grasses, broadleaf and woody weeds in Pinus radiata and Pinus pinaster, forests, and industrial weed control situations as per the Directions for Use table on the label.

This Safety Data Sheet 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. Hazard Identification

OT4 Acute Toxicity - Oral: Category 4 **GHS** classification of ED2A Eye Damage/Irritation: Category 2A the

substance/mixture

WARNING Signal Word (s)

Hazard Statement (s) H302 Harmful if swallowed.

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 Pictogram (s)



P264 Wash hands and exposed skin thoroughly after handling. **Precautionary** P270 Do not eat, drink or smoke when using this product. statement -

P280 Wear protective gloves, clothing, eye and face protection. Prevention

unwell. statement - Response

P330 Rinse mouth.

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

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

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

Poisons Schedule S6 Other Information

3. Composition/information on ingredients

Chemical Characterization

Precautionary

Solid

Ingredients Name CAS Proportion

750 g/kg Hexazinone tech. 51235-04-2 Kaolin clay 1332-58-7 10-30 % Anionic Components <10%

4. First-aid measures





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Remove affected person to fresh air until recovered. If symptoms develop or Inhalation

persist, seek medical advice.

Rinse mouth and then drink plenty of water. Ingestion

If vomiting occurs, give more water to drink to assist dilution.

Do not give anything by mouth to a semi-conscious or unconscious person. 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 Wash affected areas thoroughly with soap and water.

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.

Seek medical advice immediately.

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

(Australia) on 13 11 26. Treat symptomatically.

5. Fire-fighting measures

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

extinguishing media

Advice to Doctor

Hazards from Combustion Products

Special Protective

Equipment for fire

Breathable air apparatus must be worn when fighting a fire in which this

If involved in a fire, it may emit oxides of nitrogen and possibly cyanide.

product is involved.

fighters

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

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.

On-site disposal of concentrate is not acceptable.

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

7. Handling and storage

Precautions for Safe Handling

Avoid generating dusts while handling the product and mixing. Do NOT contaminate dams, rivers or streams, or any other water bodies with

chemical or used containers.

If dusts are generated, it is advisable to wear a dust mask, refer Section

8.

Do not apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the

chemical may be washed or moved into contact with their roots.

Conditions for safe storage, including

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

direct sunlight.

any incompatabilities

Thoroughly flush all spray equipment with water following the use of this **Tank Cleaning**

product and before use with other products.

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

8. Exposure controls/personal protection

Occupational Name STEL TWA

exposure limit values

mg/m3 mg/m3 Footnote ppm ppm

10

Kaolin clay

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

Appropriate engineering controls





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Respiratory

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

Protection

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.

After use and before eating, drinking or smoking, wash hands, arms and face **Hygiene Measures**

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

Beige Granules **Appearance**

Disperses in water. Solubility in Water 0.03 mPa (hexazinone) Vapour Pressure

Partition Coefficient: Kow Log P is 1.2 (hexazinone, pH7)

n-octanol/water

Flammability Non combustible material. Other Information pKa is 2.2 (hexazinone, 25°C)

10. Stability and reactivity

Chemical Stability Stable under normal conditions.

Hazardous polymerisation is not possible. Hazardous

Polymerization

11. Toxicological Information

1100 mg/kg for hexazinone **Acute Toxicity - Oral** LD50 (rat)

Acute Toxicity -

Dermal

Ingestion

>5000 mg/kg for hexazinone LD50 (rat)

Acute Toxicity -

Inhalation

LC50 (rat) (1hr) > 7.48 mg/l for hexazinone

expected to cause injury.

Inhalation May cause irritation to mucous membranes.

May irritate the skin. Skin

The concentrate will cause irritation of the eyes. Eve

Product is not a skin sensitiser. **Skin Sensitisation**

Reproductive Data indicates no reproductive effects. Data indicates no teratogenic effects. **Toxicity**

Serious eye damage/irritation

Moderate eye irritant.

Data indicates no mutagenic effects. Mutagenicity

Mild skin irritant. Skin

corrosion/irritation

Other Information The Australian Acceptable Daily Intake (ADI) for hexazinone for a human is 0.1

mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 10 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,

Amounts swallowed incidental to normal handling procedures and use are not

'ADI List', September 2013).

12. Ecological information

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





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containers which have held this product.

Environmental

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

EC50 (120hr) for Selenastrum capricornutum 0.007 mg/l for hexazinone.

Protection

Acute Toxicity - Fish LC50 (96hr) for rainbow trout is >320 mg/l for hexazinone

Acute Toxicity -

Daphnia

LC50 (48hr) for daphnia is 442 mg/l.

Acute Toxicity -Algae

Acute Toxicity -Other Organisms Not toxic to birds. LD50 for bobwhite quail is 2258 mg/kg for hexazinone

Bees: Not toxic to bees. LD50 >60 µg/bee.

13. Disposal considerations

On site disposal of the concentrated product is not acceptable. **Product 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. **Container Disposal**

Triple or preferably pressure rinse containers before disposal.

rinsings to the spray tank.

Puncture or shred and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility approved waste management facility. is not available, bury the empty packaging $500\,\mathrm{mm}$ 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.

DO NOT burn empty bags or product.

14. Transport information

Storage and Considered non dangerous for transport by the Australian Code for the

Transport of Dangerous Goods by Road and Rail. **Transport**

For bulk shipments as Class 9, use UN 3077, HazChem code 2X.

UN Number (Sea

Transport)

Class 9; Packing Group III **IMO Class/Packing**

Group

IMO Marine Marine Pollutant

Pollutant

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

(contains hexazinone) **Shipping Name**

15. Regulatory information

Poisons Schedule Packaging & POISON

KEEP OUT OF REACH OF CHILDREN Labelling

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

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

Medicines Authority (APVMA). APVMA product number: 62549.

16. Other Information

12/05/2014 Date of preparation

or last revision of

This MSDS replaces document dated May 2013.

Contact Person/Point Normal Hours: Mrs Kathleen Marsh After Hours: Shift Supervisor

Phone: +61 3 9282 1000 Phone: 1800 033 498

The SDS was reviewed to include GHS requirements.

Revisions Highlighted

SDS

... End Of MSDS...

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